Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory:** LL

EDD Filename: DE181_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-030-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 9:55:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.87	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.79	J	0.508	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 11:25:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	201		0.0413	MDL	0.573	PQL	mg/Kg	J	Q, E
PHOSPHORUS	314		0.401	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	2680		13.0	MDL	57.3	PQL	mg/Kg	J	Q
TIN	2.11	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.15	J	0.528	MDL	5.73	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 11:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	73600		14.3	MDL	115	PQL	mg/Kg	J	E, E

Sample ID: SL-034-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 12:25:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	42900		2.88	MDL	23.0	PQL	mg/Kg	J	E, E
MANGANESE	263		0.0414	MDL	0.575	PQL	mg/Kg	J	Q, E
PHOSPHORUS	306		0.403	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3320		13.0	MDL	57.5	PQL	mg/Kg	J	Q
TIN	2.27	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.45	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 2:30:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	60600		2.93	MDL	23.4	PQL	mg/Kg	J	E, E
MANGANESE	270		0.0422	MDL	0.586	PQL	mg/Kg	J	Q, E
PHOSPHORUS	439		0.410	MDL	11.7	PQL	mg/Kg	J	Q
POTASSIUM	3350		13.2	MDL	58.6	PQL	mg/Kg	J	Q
TIN	2.36	J	0.375	MDL	11.7	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-055-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 2:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	5.17	J	0.539	MDL	5.86	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 2:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.16	J	0.386	MDL	5.36	PQL	mg/Kg	J	Z
CALCIUM	3590		2.68	MDL	21.4	PQL	mg/Kg	J	E, E
MANGANESE	147		0.0386	MDL	0.536	PQL	mg/Kg	J	Q, E
PHOSPHORUS	132		0.375	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	1810		12.1	MDL	53.6	PQL	mg/Kg	J	Q
TIN	2.56	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.55	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 3:20:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	37800		2.85	MDL	22.8	PQL	mg/Kg	J	E, E
MANGANESE	353		0.0411	MDL	0.571	PQL	mg/Kg	J	Q, E
PHOSPHORUS	419		0.400	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3570		12.9	MDL	57.1	PQL	mg/Kg	J	Q
TIN	2.40	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	5.25	J	0.525	MDL	5.71	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 3:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	150		0.0412	MDL	0.572	PQL	mg/Kg	J	Q, E
PHOSPHORUS	235		0.400	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	2190		12.9	MDL	57.2	PQL	mg/Kg	J	Q
TIN	2.26	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.94	J	0.526	MDL	5.72	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory:** LL

EDD Filename: DE181_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-056-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 3:25:00 *Analysis Type:* REA2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	86800		14.3	MDL	114	PQL	mg/Kg	J	E, E

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.265		0.0563	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.119	MDL	0.451	PQL	mg/Kg	J	E, A

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	20.3		0.0892	MDL	0.446	PQL	mg/Kg	J	Q, E

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0834	U	0.0834	MDL	0.225	PQL	mg/Kg	UJ	Q, FD
ARSENIC	6.78		0.0901	MDL	0.451	PQL	mg/Kg	J	Q
BERYLLIUM	0.793		0.0180	MDL	0.113	PQL	mg/Kg	J	Q
CADMIUM	0.151		0.0496	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	24.2		0.135	MDL	0.451	PQL	mg/Kg	J	Q
COBALT	14.2		0.0225	MDL	0.113	PQL	mg/Kg	J	Q, E, FD
LEAD	10.7		0.0115	MDL	0.225	PQL	mg/Kg	J	Q
NICKEL	19.4		0.113	MDL	0.451	PQL	mg/Kg	J	Q, E
SILVER	0.0470	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.269		0.0338	MDL	0.113	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-020-SA5DN-SB-3.5-4.5 *Collected:* 6/15/2011 10:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.358		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-020-SA5DN-SB-3.5-4.5 *Collected:* 6/15/2011 10:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.118	MDL	0.445	PQL	mg/Kg	J	E, A

Sample ID: SL-020-SA5DN-SB-3.5-4.5 *Collected:* 6/15/2011 10:45:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	13.8		0.0874	MDL	0.437	PQL	mg/Kg	J	Q, E

Sample ID: SL-020-SA5DN-SB-3.5-4.5 *Collected:* 6/15/2011 10:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0824	MDL	0.223	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.41		0.0891	MDL	0.445	PQL	mg/Kg	J	Q
BERYLLIUM	0.827		0.0178	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.114		0.0490	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	25.7		0.134	MDL	0.445	PQL	mg/Kg	J	Q
COBALT	15.1		0.0223	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	11.1		0.0114	MDL	0.223	PQL	mg/Kg	J	Q
NICKEL	21.2		0.111	MDL	0.445	PQL	mg/Kg	J	Q, E
SILVER	0.0575	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.330		0.0334	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.164		0.0566	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	79.2		0.120	MDL	0.453	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 Laboratory: LL

EDD Filename: DE181_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:00:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	12.1		0.0906	MDL	0.453	PQL	mg/Kg	J	Q, E

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0838	U	0.0838	MDL	0.227	PQL	mg/Kg	UJ	Q
ARSENIC	4.42		0.0906	MDL	0.453	PQL	mg/Kg	J	Q
BERYLLIUM	0.627		0.0181	MDL	0.113	PQL	mg/Kg	J	Q
CADMIUM	0.176		0.0498	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	22.6		0.136	MDL	0.453	PQL	mg/Kg	J	Q
COBALT	4.48		0.0227	MDL	0.113	PQL	mg/Kg	J	Q, E
LEAD	5.44		0.0116	MDL	0.227	PQL	mg/Kg	J	Q
NICKEL	13.6		0.113	MDL	0.453	PQL	mg/Kg	J	Q, E
SILVER	0.0293	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.271		0.0340	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.269		0.0569	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.121	MDL	0.455	PQL	mg/Kg	J	E, A

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:55:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	17.0		0.0902	MDL	0.451	PQL	mg/Kg	J	Q, E

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0842	MDL	0.228	PQL	mg/Kg	UJ	Q, B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory:** LL

EDD Filename: DE181_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.20		0.0910	MDL	0.455	PQL	mg/Kg	J	Q
BERYLLIUM	0.982		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.138		0.0501	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.137	MDL	0.455	PQL	mg/Kg	J	Q
COBALT	5.52		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E, FD
LEAD	8.11		0.0116	MDL	0.228	PQL	mg/Kg	J	Q
NICKEL	20.6		0.114	MDL	0.455	PQL	mg/Kg	J	Q, E
SILVER	0.0864	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.375		0.0341	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 11:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.389		0.0557	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 11:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	177		0.118	MDL	0.445	PQL	mg/Kg	J	E, A

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 11:25:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.4		0.0899	MDL	0.450	PQL	mg/Kg	J	Q, E

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 11:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.155	J	0.0824	MDL	0.223	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.64		0.0891	MDL	0.445	PQL	mg/Kg	J	Q
BERYLLIUM	1.03		0.0178	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.489		0.0490	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	35.1		0.134	MDL	0.445	PQL	mg/Kg	J	Q
COBALT	13.1		0.0223	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	11.8		0.0114	MDL	0.223	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-031-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	28.9		0.111	MDL	0.445	PQL	mg/Kg	J	Q, E
SILVER	0.0672	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.431		0.0334	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 12:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.390		0.0570	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-034-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 12:25:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	168		0.121	MDL	0.456	PQL	mg/Kg	J	E, A

Sample ID: SL-034-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 12:25:00 ***Analysis Type:*** REA8 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.9		0.0911	MDL	0.456	PQL	mg/Kg	J	Q, E

Sample ID: SL-034-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 12:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.188	J	0.0843	MDL	0.228	PQL	mg/Kg	UJ	Q, B
ARSENIC	9.14		0.0911	MDL	0.456	PQL	mg/Kg	J	Q
BERYLLIUM	0.913		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.358		0.0501	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	35.4		0.137	MDL	0.456	PQL	mg/Kg	J	Q
COBALT	10.6		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E
LEAD	10.7		0.0116	MDL	0.228	PQL	mg/Kg	J	Q
NICKEL	25.1		0.114	MDL	0.456	PQL	mg/Kg	J	Q, E
SILVER	0.0862	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.392		0.0342	MDL	0.114	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE181 Laboratory: LL

EDD Filename: DE181_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-055-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 2:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0749	J	0.0667	MDL	0.460	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 2:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.392		0.0575	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-055-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 2:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	164		0.122	MDL	0.460	PQL	mg/Kg	J	E, A

Sample ID: SL-055-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 2:30:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.2		0.0929	MDL	0.464	PQL	mg/Kg	J	Q, E

Sample ID: SL-055-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 2:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.144	J	0.0851	MDL	0.230	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.42		0.0919	MDL	0.460	PQL	mg/Kg	J	Q
BERYLLIUM	0.958		0.0184	MDL	0.115	PQL	mg/Kg	J	Q
CADMIUM	0.434		0.0506	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	36.7		0.138	MDL	0.460	PQL	mg/Kg	J	Q
COBALT	13.3		0.0230	MDL	0.115	PQL	mg/Kg	J	Q, E
LEAD	11.7		0.0117	MDL	0.230	PQL	mg/Kg	J	Q
NICKEL	25.0		0.115	MDL	0.460	PQL	mg/Kg	J	Q, E
SILVER	0.0714	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.436		0.0345	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-055-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 2:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.371		0.0552	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory:** LL

EDD Filename: DE181_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-055-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 2:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	67.4		0.117	MDL	0.442	PQL	mg/Kg	J	E, A

Sample ID: SL-055-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 2:35:00 *Analysis Type:* REA8 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	9.41		0.0883	MDL	0.442	PQL	mg/Kg	J	Q, E

Sample ID: SL-055-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 2:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0817	U	0.0817	MDL	0.221	PQL	mg/Kg	UJ	Q
ARSENIC	4.91		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
BERYLLIUM	0.591		0.0177	MDL	0.110	PQL	mg/Kg	J	Q
CADMIUM	0.0884	J	0.0486	MDL	0.110	PQL	mg/Kg	J	Z, Q
CHROMIUM	21.1		0.132	MDL	0.442	PQL	mg/Kg	J	Q
COBALT	9.00		0.0221	MDL	0.110	PQL	mg/Kg	J	Q, E
LEAD	6.05		0.0113	MDL	0.221	PQL	mg/Kg	J	Q
NICKEL	13.8		0.110	MDL	0.442	PQL	mg/Kg	J	Q, E
SILVER	0.0860	J	0.0157	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.250		0.0331	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-056-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 3:20:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0743	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 3:20:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.290		0.0571	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-056-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 3:20:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	157		0.121	MDL	0.457	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory:** LL

EDD Filename: DE181_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-056-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 3:20:00 ***Analysis Type:*** REA8 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	17.6		0.0950	MDL	0.475	PQL	mg/Kg	J	Q, E

Sample ID: SL-056-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 3:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.150	J	0.0845	MDL	0.228	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.53		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
BERYLLIUM	0.913		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.442		0.0502	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	34.8		0.137	MDL	0.457	PQL	mg/Kg	J	Q
COBALT	13.5		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E
LEAD	11.0		0.0116	MDL	0.228	PQL	mg/Kg	J	Q
NICKEL	29.4		0.114	MDL	0.457	PQL	mg/Kg	J	Q, E
SILVER	0.0527	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.402		0.0343	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-056-SA5DN-SB-9.0-10.0 ***Collected:*** 6/15/2011 3:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.316		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-056-SA5DN-SB-9.0-10.0 ***Collected:*** 6/15/2011 3:25:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	117		0.119	MDL	0.449	PQL	mg/Kg	J	E, A

Sample ID: SL-056-SA5DN-SB-9.0-10.0 ***Collected:*** 6/15/2011 3:25:00 ***Analysis Type:*** REA8 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.3		0.0906	MDL	0.453	PQL	mg/Kg	J	Q, E

Sample ID: SL-056-SA5DN-SB-9.0-10.0 ***Collected:*** 6/15/2011 3:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0830	MDL	0.224	PQL	mg/Kg	UJ	Q, B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-056-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 3:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.71		0.0897	MDL	0.449	PQL	mg/Kg	J	Q
BERYLLIUM	1.02		0.0179	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	0.234		0.0494	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	35.3		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COBALT	9.37		0.0224	MDL	0.112	PQL	mg/Kg	J	Q, E
LEAD	10.9		0.0114	MDL	0.224	PQL	mg/Kg	J	Q
NICKEL	23.0		0.112	MDL	0.449	PQL	mg/Kg	J	Q, E
SILVER	0.0836	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.376		0.0337	MDL	0.112	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-020-SA5DN-SB-3.5-4.5 *Collected:* 6/15/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-055-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.65	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-056-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0103	J	0.0076	MDL	0.109	PQL	mg/Kg	J	Z, FD

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0215	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z, FD

Sample ID: SL-034-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0124	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix: SO**

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	24.5	J	19.0	MDL	37.9	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 Laboratory: LL

EDD Filename: DE181_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1625C **Matrix:** SO

Sample ID: SL-020-SA5DN-SB-3.5-4.5 *Collected:* 6/15/2011 10:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	34.4	J	18.8	MDL	37.5	PQL	ng/Kg	J	Z

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	33.3	J	18.9	MDL	37.8	PQL	ng/Kg	J	Z

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	36.3	J	18.9	MDL	37.8	PQL	ng/Kg	J	Z

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 11:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	36.0	J	19.1	MDL	38.2	PQL	ng/Kg	J	Z

Sample ID: SL-034-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 12:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	30.4	J	19.2	MDL	38.4	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 6850 **Matrix:** SO

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	3.6	J	2.4	MDL	5.7	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory:** LL

EDD Filename: DE181_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.48	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z, FD

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.7	U	5.7	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:55:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.46	U	0.46	MDL	1.4	PQL	mg/Kg	UJ	FD

Sample ID: SL-034-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 12:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.2	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C8-C11)	0.50	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-056-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 3:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	20	MDL	400	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: EB18-SA5DN-SB-061511 *Collected:* 6/15/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.013	J	0.010	MDL	0.050	PQL	ug/L	J	Z
2-METHYLNAPHTHALENE	0.014	J	0.010	MDL	0.050	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.21	J	0.050	MDL	1.0	PQL	ug/L	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory:** LL

EDD Filename: DE181_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: EB18-SA5DN-SB-061511 *Collected:* 6/15/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Dimethylphthalate	0.050	U	0.050	MDL	1.0	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.11	J	0.050	MDL	1.0	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: SL-020-SA5DN-SB-3.5-4.5 *Collected:* 6/15/2011 10:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.1	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.7	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.93	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.87	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-034-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 12:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.1	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.97	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-055-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix:** AQ

Sample ID: EB18-SA5DN-SB-061511 *Collected:* 6/15/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 Laboratory: LL

EDD Filename: DE181_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA **Method:** 8330A **Matrix:** AQ

Sample ID: EB18-SA5DN-SB-061511 *Collected:* 6/15/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	L, E

Method Category: VOA **Method:** 8260B **Matrix:** AQ

Sample ID: EB18-SA5DN-SB-061511 *Collected:* 6/15/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.8	J	0.7	MDL	5	PQL	ug/L	J	Z

Method Category: VOA **Method:** 8260B **Matrix:** SO

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* RES *Dilution:* 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	6.8	U	6.8	MDL	8.2	PQL	ug/Kg	UJ	FD
METHYLENE CHLORIDE	1.9	J	0.24	MDL	4.1	PQL	ug/Kg	UJ	B, FD
TOLUENE	0.1	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-020-SA5DN-SB-3.5-4.5 *Collected:* 6/15/2011 10:45:00 *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.1	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.13	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:00:00 *Analysis Type:* RES *Dilution:* 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.0	J	0.25	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-030-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.1		6.6	MDL	7.9	PQL	ug/Kg	J	FD
Chlorotrifluoroethylene	0.50	U	0.50	MDL	5.0	PQL	ug/Kg	UJ	Q
METHYLENE CHLORIDE	1.1	J	0.24	MDL	4.0	PQL	ug/Kg	UJ	B, FD
TOLUENE	0.10	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-031-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 11:25:00 ***Analysis Type:*** RES ***Dilution:*** 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.6	J	0.26	MDL	4.3	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.09	MDL	4.3	PQL	ug/Kg	J	Z

Sample ID: SL-034-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 12:25:00 ***Analysis Type:*** RES ***Dilution:*** 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.7	J	0.24	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-055-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 2:30:00 ***Analysis Type:*** RES ***Dilution:*** 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.5	J	0.26	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-056-SA5DN-SB-4.0-5.0 ***Collected:*** 6/15/2011 3:20:00 ***Analysis Type:*** RES ***Dilution:*** 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.3	J	0.26	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.09	MDL	4.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE181

Method Blank Outlier Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17248BB221736	6/24/2011 5:36:00 PM	BORON MAGNESIUM	0.0034 mg/L 0.0092 mg/L	EB18-SA5DN-SB-061511

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB18-SA5DN-SB-061511(RES)	BORON	0.0033 mg/L	0.0033U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17208DB220350	6/29/2011 3:50:00 AM	CALCIUM PHOSPHORUS STRONTIUM TIN	4.41 mg/Kg 1.56 mg/Kg 0.0245 mg/Kg 1.59 mg/Kg	DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP15-SA5DN-QC-061511(REA)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-020-SA5DN-SB-3.5-4.5(REA)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-029-SA5DN-SB-4.0-5.0(REA)	TIN	2.28 mg/Kg	2.28U mg/Kg
SL-030-SA5DN-SB-4.0-5.0(REA)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-031-SA5DN-SB-4.0-5.0(REA)	TIN	2.11 mg/Kg	2.11U mg/Kg
SL-034-SA5DN-SB-4.0-5.0(REA)	TIN	2.27 mg/Kg	2.27U mg/Kg
SL-055-SA5DN-SB-4.0-5.0(REA)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-055-SA5DN-SB-9.0-10.0(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-056-SA5DN-SB-4.0-5.0(REA)	TIN	2.40 mg/Kg	2.40U mg/Kg
SL-056-SA5DN-SB-9.0-10.0(REA)	TIN	2.26 mg/Kg	2.26U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17226CB221020A	6/23/2011 10:20:00 AM	ANTIMONY	0.0869 mg/Kg	DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-020-SA5DN-SB-3.5-4.5(RES)	ANTIMONY	0.114 mg/Kg	0.114U mg/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.114 mg/Kg	0.114U mg/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.155 mg/Kg	0.155U mg/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.188 mg/Kg	0.188U mg/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.144 mg/Kg	0.144U mg/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.150 mg/Kg	0.150U mg/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.136 mg/Kg	0.136U mg/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB91B211352A	6/20/2011 1:52:00 PM	METHYLENE CHLORIDE	0.87 ug/Kg	DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP15-SA5DN-QC-061511(RES)	METHYLENE CHLORIDE	1.9 ug/Kg	4.1U ug/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	3.9U ug/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.0 ug/Kg	4.1U ug/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.1 ug/Kg	4.0U ug/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	4.3U ug/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	3.9U ug/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.4U ug/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.2U ug/Kg

Method: 8270C SIM
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWB17B261133	6/28/2011 11:33:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	0.069 ug/L	EB18-SA5DN-SB-061511

Method Blank Outlier Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB18-SA5DN-SB-061511(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.21 ug/L	1.0U ug/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-030-SA5DN-SB-4.0-5.0MS SL-030-SA5DN-SB-4.0-5.0MSD (SL-030-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL	36	33	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-030-SA5DN-SB-4.0-5.0MS SL-030-SA5DN-SB-4.0-5.0MSD (SL-030-SA5DN-SB-4.0-5.0)	EFH (C21-C30) EFH (C30-C40)	130 137	- -	49.00-123.00 49.00-123.00	24 (20.00) -	EFH (C21-C30) EFH (C30-C40)	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-030-SA5DN-SB-4.0-5.0MS SL-030-SA5DN-SB-4.0-5.0MSD (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT LEAD SILVER THALLIUM VANADIUM ZINC	311 160 148 188 170 291 148 166 311 361	295 141 146 128 148 212 140 141 220 247	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT LEAD SILVER THALLIUM VANADIUM ZINC	J(all detects) V, Zn, No Qual, >4x
SL-030-SA5DN-SB-4.0-5.0MS SL-030-SA5DN-SB-4.0-5.0MSD (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	ANTIMONY NICKEL	41 272	51 183	75.00-125.00 75.00-125.00	- 23 (20.00)	ANTIMONY NICKEL	J(all detects) UJ(all non-detects)
SL-030-SA5DN-SB-4.0-5.0MS SL-030-SA5DN-SB-4.0-5.0MSD (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	MOLYBDENUM	140	139	75.00-125.00	-	MOLYBDENUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-030-SA5DN-SB-4.0-5.0MS SL-030-SA5DN-SB-4.0-5.0MSD (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	BARIUM	559	204	75.00-125.00	25 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual, %R, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-030-SA5DN-SB-4.0-5.0MS SL-030-SA5DN-SB-4.0-5.0MSD (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	ALUMINUM IRON PHOSPHORUS POTASSIUM TITANIUM	915 374 - 139 162	1212 1119 131 168 201	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM IRON PHOSPHORUS POTASSIUM TITANIUM	J(all detects) Al, Fe, Ti, No Qual, >4x
SL-030-SA5DN-SB-4.0-5.0MS SL-030-SA5DN-SB-4.0-5.0MSD (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	CALCIUM	1476	-1992	75.00-125.00	73 (20.00)	CALCIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-030-SA5DN-SB-4.0-5.0MSD (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	MAGNESIUM MANGANESE	- -	43 346	75.00-125.00 75.00-125.00	- 45 (20.00)	MAGNESIUM MANGANESE	J(all detects) UJ(all non-detects) Mg, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-030-SA5DN-SB-4.0-5.0MS (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	COPPER	67	-	75.00-125.00	-	COPPER	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-030-SA5DN-SB-4.0-5.0MS (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	FLUORIDE	70	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-030-SA5DN-SB-4.0-5.0MSD (SL-030-SA5DN-SB-4.0-5.0)	2,4-DINITROPHENOL	-	-	20.00-143.00	49 (30.00)	2,4-DINITROPHENOL	J(all detects)
	2-CHLORONAPHTHALENE	-	-	50.00-141.00	44 (30.00)	2-CHLORONAPHTHALENE	
	BENZOIC ACID	-	-	10.00-173.00	44 (30.00)	BENZOIC ACID	

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-030-SA5DN-SB-4.0-5.0MS SL-030-SA5DN-SB-4.0-5.0MSD (SL-030-SA5DN-SB-4.0-5.0)	Chlorotrifluoroethylene	55	53	70.00-130.00	-	Chlorotrifluoroethylene	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-030-SA5DN-SB-4.0-5.0DUP (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	CALCIUM	31	20.00	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-030-SA5DN-SB-4.0-5.0DUP (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	COBALT COPPER SILVER THALLIUM	58 23 55 24	20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects) Ag, Tl, No Qual, OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-030-SA5DN-SB-4.0-5.0DUP (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-030-SA5DN-SB-4.0-5.0DUP (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	MERCURY	88	20.00	No Qual OK by Difference

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11671AQ240424A P11671AY240507A (EB18-SA5DN-SB-061511)	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	J (all detects)
P11671AQ240424A P11671AY240507A (EB18-SA5DN-SB-061511)	1,3,5-TRINITROBENZENE Tetryl	- 44	- -	53.00-129.00 72.00-141.00	33 (30.00) 59 (30.00)	1,3,5-TRINITROBENZENE Tetryl	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2WBLCSY261525 (EB18-SA5DN-SB-061511)	Dimethylphthalate	-	39	40.00-119.00	-	Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 314.0
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
Q1173Y271530B (EB18-SA5DN-SB-061511)	PERCHLORATE	-	-	85.00-115.00	16 (15.00)	PERCHLORATE	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P17226CQ221023A (DUP15-SA5DN-QC-061511 SL-020-SA5DN-SB-3.5-4.5 SL-029-SA5DN-SB-4.0-5.0 SL-030-SA5DN-SB-4.0-5.0 SL-031-SA5DN-SB-4.0-5.0 SL-034-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-4.0-5.0 SL-055-SA5DN-SB-9.0-10.0 SL-056-SA5DN-SB-4.0-5.0 SL-056-SA5DN-SB-9.0-10.0)	ANTIMONY	68	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB18-SA5DN-SB-061511	BORON	J	0.0033	0.0500	PQL	mg/L	J (all detects)

Method: 8260B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB18-SA5DN-SB-061511	TOLUENE	J	0.8	5	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB18-SA5DN-SB-061511	1-METHYLNAPHTHALENE	J	0.013	0.050	PQL	ug/L	J (all detects)
	2-METHYLNAPHTHALENE	J	0.014	0.050	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.21	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.11	1.0	PQL	ug/L	

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5DN-QC-061511	N-NITROSODIMETHYLAMINE	J	24.5	37.9	PQL	ng/Kg	J (all detects)
SL-020-SA5DN-SB-3.5-4.5	N-NITROSODIMETHYLAMINE	J	34.4	37.5	PQL	ng/Kg	J (all detects)
SL-029-SA5DN-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	33.3	37.8	PQL	ng/Kg	J (all detects)
SL-030-SA5DN-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	36.3	37.8	PQL	ng/Kg	J (all detects)
SL-031-SA5DN-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	36.0	38.2	PQL	ng/Kg	J (all detects)
SL-034-SA5DN-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	30.4	38.4	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5DN-QC-061511	TIN	J	2.52	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.00	5.52	PQL	mg/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA5DN-SB-3.5-4.5	TIN	J	2.36	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.03	5.57	PQL	mg/Kg	
SL-029-SA5DN-SB-4.0-5.0	TIN	J	2.28	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.41	5.44	PQL	mg/Kg	
SL-030-SA5DN-SB-4.0-5.0	TIN	J	2.87	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.79	5.53	PQL	mg/Kg	
SL-031-SA5DN-SB-4.0-5.0	TIN	J	2.11	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.15	5.73	PQL	mg/Kg	
SL-034-SA5DN-SB-4.0-5.0	TIN	J	2.27	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.45	5.75	PQL	mg/Kg	
SL-055-SA5DN-SB-4.0-5.0	TIN	J	2.36	11.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.17	5.86	PQL	mg/Kg	
SL-055-SA5DN-SB-9.0-10.0	BORON	J	5.16	5.36	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.7	PQL	mg/Kg	
	Zirconium	J	2.55	5.36	PQL	mg/Kg	
SL-056-SA5DN-SB-4.0-5.0	TIN	J	2.40	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.25	5.71	PQL	mg/Kg	
SL-056-SA5DN-SB-9.0-10.0	TIN	J	2.26	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.94	5.72	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5DN-QC-061511	SILVER	J	0.0470	0.113	PQL	mg/Kg	J (all detects)
SL-020-SA5DN-SB-3.5-4.5	ANTIMONY	J	0.114	0.223	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0575	0.111	PQL	mg/Kg	
SL-029-SA5DN-SB-4.0-5.0	SILVER	J	0.0293	0.113	PQL	mg/Kg	J (all detects)
SL-030-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.114	0.228	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0864	0.114	PQL	mg/Kg	
SL-031-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.155	0.223	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0672	0.111	PQL	mg/Kg	
SL-034-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.188	0.228	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0862	0.114	PQL	mg/Kg	
SL-055-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.144	0.230	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0749	0.460	PQL	mg/Kg	
	SILVER	J	0.0714	0.115	PQL	mg/Kg	
SL-055-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0884	0.110	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0860	0.110	PQL	mg/Kg	
SL-056-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.150	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0743	0.457	PQL	mg/Kg	
	SILVER	J	0.0527	0.114	PQL	mg/Kg	
SL-056-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.136	0.224	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0836	0.112	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6850

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA5DN-SB-4.0-5.0	PERCHLORATE	J	3.6	5.7	PQL	ug/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA5DN-SB-3.5-4.5	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)
SL-029-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-031-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-055-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.2	PQL	mg/Kg	J (all detects)
SL-055-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-056-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5DN-QC-061511	MERCURY	J	0.0103	0.109	PQL	mg/Kg	J (all detects)
SL-030-SA5DN-SB-4.0-5.0	MERCURY	J	0.0215	0.110	PQL	mg/Kg	J (all detects)
SL-034-SA5DN-SB-4.0-5.0	MERCURY	J	0.0124	0.109	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5DN-QC-061511	EFH (C21-C30)	J	0.48	1.4	PQL	mg/Kg	J (all detects)
SL-034-SA5DN-SB-4.0-5.0	EFH (C15-C20) EFH (C8-C11)	J J	1.2 0.50	1.4 1.4	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5DN-QC-061511	METHYLENE CHLORIDE TOLUENE	J J	1.9 0.1	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-020-SA5DN-SB-3.5-4.5	METHYLENE CHLORIDE TOLUENE	J J	1.1 0.13	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-029-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.0 0.1	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: DE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.1	4.0	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.10	4.0	PQL	ug/Kg	
SL-031-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.6	4.3	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.10	4.3	PQL	ug/Kg	
SL-034-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.7	3.9	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.09	3.9	PQL	ug/Kg	
SL-055-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.5	4.4	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.1	4.4	PQL	ug/Kg	
SL-056-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.3	4.2	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.1	4.2	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-056-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	400	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-020-SA5DN-SB-3.5-4.5	BENZO(A)ANTHRACENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.2	1.9	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.7	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.93	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	0.87	1.9	PQL	ug/Kg	
SL-034-SA5DN-SB-4.0-5.0	BENZO(K)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.1	1.9	PQL	ug/Kg	
	PYRENE	J	0.97	1.9	PQL	ug/Kg	
SL-055-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	20	PQL	ug/Kg	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: PrepDE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg) SL-030-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP15-SA5DN-QC-061511	Sample RPD	eQAPP RPD	Flag
ARSENIC	6.20	6.78	9	50.00	No Qualifiers Applied
BARIUM	118	101	16	50.00	
BERYLLIUM	0.982	0.793	21	50.00	
CADMIUM	0.138	0.151	9	50.00	
CHROMIUM	30.0	24.2	21	50.00	
COPPER	17.0	20.3	18	50.00	
LEAD	8.11	10.7	28	50.00	
MOLYBDENUM	0.269	0.265	1	50.00	
NICKEL	20.6	19.4	6	50.00	
THALLIUM	0.375	0.269	33	50.00	
VANADIUM	51.0	44.7	13	50.00	
ZINC	57.8	49.8	15	50.00	
ANTIMONY	0.114	0.225 U	200	50.00	J(all detects) UJ(all non-detects)
COBALT	5.52	14.2	88	50.00	
SILVER	0.0864	0.0470	59	50.00	

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg) SL-030-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP15-SA5DN-QC-061511	Sample RPD	eQAPP RPD	Flag
MERCURY	0.0215	0.0103	70	50.00	J(all detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg) SL-030-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP15-SA5DN-QC-061511	Sample RPD	eQAPP RPD	Flag
EFH (C21-C30)	1.4 U	0.48	200	50.00	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg) SL-030-SA5DN-SB-4.0-5.0	Concentration (ug/Kg) DUP15-SA5DN-QC-061511	Sample RPD	eQAPP RPD	Flag
TOLUENE	0.10	0.1	0	50.00	No Qualifiers Applied
ACETONE	8.1	8.2 U	200	50.00	J(all detects) UJ(all non-detects)
METHYLENE CHLORIDE	1.1	1.9	53	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit) SL-030-SA5DN-SB-4.0-5.0	Concentration (pH unit) DUP15-SA5DN-QC-061511	Sample RPD	eQAPP RPD	Flag
PH	8.59	8.36	3	50.00	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: DE181 **Laboratory: LL**

EDD Filename: PrepDE181_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-030-SA5DN-SB-4.0-5.0	DUP15-SA5DN-QC-061511			
MOISTURE	13.0	12.1	7		No Qualifiers Applied

Method: 1625C
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-030-SA5DN-SB-4.0-5.0	DUP15-SA5DN-QC-061511			
N-NITROSODIMETHYLAMINE	36.3	24.5	39	50.00	No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-030-SA5DN-SB-4.0-5.0	DUP15-SA5DN-QC-061511			
FLUORIDE	6.1	5.2	16	50.00	No Qualifiers Applied
Nitrate-NO3	1.3	1.9	37	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-030-SA5DN-SB-4.0-5.0	DUP15-SA5DN-QC-061511			
ALUMINUM	30100	20100	40	50.00	No Qualifiers Applied
BORON	8.77	6.15	35	50.00	
IRON	29300	23700	21	50.00	
LITHIUM	25.7	21.7	17	50.00	
MAGNESIUM	5950	4650	25	50.00	
MANGANESE	179	156	14	50.00	
PHOSPHORUS	174	215	21	50.00	
POTASSIUM	2440	2240	9	50.00	
SODIUM	338	250	30	50.00	
TIN	2.87	2.52	13	50.00	
TITANIUM	1170	1020	14	50.00	
Zirconium	3.79	3.00	23	50.00	
CALCIUM	22100	4520	132	50.00	J(all detects)
STRONTIUM	36.3	20.7	55	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

LDC #: 26277L4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/30/11
SDG #: DE181 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No qual
V.	ICP Interference Check Sample (ICS) Analysis	N	RPD
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti, V, Zn >4X %R
VII.	Duplicate Sample Analysis	N	Hg, Ag, Tl <5X
VIII.	Laboratory Control Samples (LCS)	NA	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=11 (No qual >5X)

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

Validated Samples:

1	SL-020-SA5DN-SB-3.5-4.5	11	EB18-SA5DN-SB-061511	21		31	
2	SL-029-SA5DN-SB-4.0-5.0	12	SL-030-SA5DN-SB-4.0-5.0MS	22		32	
3	SL-030-SA5DN-SB-4.0-5.0	13	SL-030-SA5DN-SB-4.0-5.0MSD	23		33	
4	SL-031-SA5DN-SB-4.0-5.0	14	SL-030-SA5DN-SB-4.0-5.0DUP	24		34	
5	SL-034-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-055-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-055-SA5DN-SB-9.0-10.0	17		27		37	
8	SL-056-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-056-SA5DN-SB-9.0-10.0	19		29		39	
10	DUP15-SA5DN-QC-061511	20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE181
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6316978BKG Matrix Spike Lab Sample ID: 6316979MS Matrix Spike Duplicate Lab Sample ID: 6316980MSD
% Solids for Sample: 87.0
Batch Id(s): P17208D, P17226C, P17526A, P17211G

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		30063.5290		32146.4903		32717.3421		227.6090	218.9381	MG/KG	915		1212		2			20	P
Antimony	121	0.1139	B	0.6728		0.7916		1.3523	1.3263	MG/KG	41	N	51	N	16		75 - 125	20	MS
Arsenic	75	6.2001		13.2184		12.7299		2.2538	2.2104	MG/KG	311	N	295	N	4		75 - 125	20	MS
Barium	137	118.4477		181.4740		141.0035		11.2689	11.0522	MG/KG	559		204		25	*		20	MS
Beryllium	9	0.9817		2.4228		2.2325		0.9015	0.8842	MG/KG	160	N	141	N	8		75 - 125	20	MS
Boron		8.7721		226.7111		220.5090		227.6090	218.9381	MG/KG	96		97		3		84 - 115	20	P
Cadmium	111	0.1380		1.8005		1.7471		1.1269	1.1052	MG/KG	148	N	146	N	3		75 - 125	20	MS
Calcium		22142.7122		28861.9313		13421.3136		455.2179	437.8763	MG/KG	1476		-1992		73	*		20	P
Chromium	52	30.0444		51.2058		44.2087		11.2689	11.0522	MG/KG	188	N	128	N	15		75 - 125	20	MS
Cobalt	59	5.5241		101.3523		87.4889		56.3444	55.2608	MG/KG	170	N	148	N	15		75 - 125	20	MS
Copper	63	16.9799		24.5211		25.6221		11.2689	11.1595	MG/KG	67	N	77		4		75 - 125	20	MS
Iron		29294.2197		29719.8828		30519.1024		113.8045	109.4691	MG/KG	374		1119		3			20	P
Lead	208	8.1097		17.9310		15.1238		3.3807	3.3156	MG/KG	291	N	212	N	17		75 - 125	20	MS
Lithium		25.7261		141.0265		138.3492		113.8045	109.4691	MG/KG	101		103		2		82 - 114	20	P
Magnesium		5951.8557		6211.8379		6046.9622		227.6090	218.9381	MG/KG	114		43		3			20	P
Manganese		179.1888		232.6391		368.7761		56.9022	54.7345	MG/KG	94		346	N	45	*	75 - 125	20	P
Mercury		0.0215	B	0.1835		0.1732		0.1835	0.1861	MG/KG	88		82		6		65 - 135	20	CV
Molybdenum	98	0.2695		16.0694		15.6432		11.2689	11.0522	MG/KG	140	N	139	N	3		75 - 125	20	MS
Nickel	60	20.5622		51.2283		40.7825		11.2689	11.0522	MG/KG	272	N	183	N	23	*	75 - 125	20	MS
Phosphorus		174.2485		314.5294		317.2271		113.8045	109.4691	MG/KG	123		131	N	1		75 - 125	20	P
Potassium		2436.8501		4017.6977		4277.6289		1138.0448	1094.6907	MG/KG	139	N	168	N	6		75 - 125	20	P
Selenium	78	0.0660	U	1.9482		2.0447		2.2538	2.2104	MG/KG	86		93		5		75 - 125	20	MS
Silver	107	0.0864	B	16.7771		15.5990		11.2689	11.0522	MG/KG	148	N	140	N	7		75 - 125	20	MS
Sodium		338.4173		1376.5153		1360.5999		1138.0448	1094.6907	MG/KG	91		93		1		75 - 125	20	P
Strontium		36.3141		147.7854		138.5441		113.8045	109.4691	MG/KG	98		93		6		75 - 115	20	P
Thallium	203	0.3751		1.1222		0.9985		0.4508	0.4421	MG/KG	166	N	141	N	12		75 - 125	20	MS
Tin		2.8691	B	385.1633		382.6305		455.2179	437.8763	MG/KG	84		87		1		80 - 110	20	P
Titanium		1170.6421		1355.3090		1390.5944		113.8045	109.4691	MG/KG	162		201		3			20	P
Vanadium	51	51.0072		86.0041		75.2874		11.2689	11.0522	MG/KG	311		220		13			20	MS
Zinc	66	57.8127		98.4674		85.1017		11.2689	11.0522	MG/KG	361		247		15			20	MS
Zirconium		3.7931	B	112.6460		110.7148		113.8045	109.4691	MG/KG	96		98		2		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE181
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6316978BKG
% Solids for Duplicate: 87.8
Batch ID(s): P17208D, P17226C, P17526A, P17211G
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6316981DUP
% Solids for Sample: 87.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			30063.5290		28300.6305		6		P
Antimony	121		0.1139	B	0.0972	B	16		MS
Arsenic	75		6.2001		5.4541		13		MS
Barium	137		118.4477		102.3214		15		MS
Beryllium	9		0.9817		0.8003		20		MS
Boron		5.5	8.7721		7.7190		13		P
Cadmium	111	0.1	0.1380		0.1380		0		MS
Calcium			22142.7122		30332.6883		31	*	P
Chromium	52		30.0444		25.8283		15		MS
Cobalt	59		5.5241		10.0045		58	*	MS
Copper	63		16.9799		13.5154		23	*	MS
Iron			29294.2197		28368.8283		3		P
Lead	208		8.1097		7.7733		4		MS
Lithium			25.7261		24.0074		7		P
Magnesium			5951.8557		5674.5330		5		P
Manganese			179.1888		159.9922		11		P
Mercury			0.0215	B	0.0084	B	88		CV
Molybdenum	98	0.1	0.2695		0.2294		16		MS
Nickel	60		20.5622		19.8783		3		MS
Phosphorus			174.2485		168.8048		3		P
Potassium			2436.8501		2315.0251		5		P
Selenium	78		0.0660	U	0.0654	U			MS
Silver	107		0.0864	B	0.0492	B	55		MS
Sodium		110.5	338.4173		328.3741		3		P
Strontium			36.3141		38.4566		6		P
Thallium	203	0.1	0.3751		0.2948		24		MS
Tin			2.8691	B	2.6984	B	6		P
Titanium			1170.6421		1096.6265		7		P
Vanadium	51		51.0072		44.5571		13		MS
Zinc	66		57.8127		50.6649		13		MS
Zirconium			3.7931	B	4.0308	B	6		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE181 4456

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

SAMPLE DELIVERY GROUP

DE182

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Jun-2011	TB-061611	6318831	TB	5030B	8260B	III
16-Jun-2011	TB-061611	6318831	TB	5030B	8260B SIM	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	3050B	6010B	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	3050B	6020	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	3060A	7199	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	3550B	8082	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	3550B	8270C	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	3550B	8270C SIM	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	5035	8260B	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	5035	8260B SIM	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	METHOD	300.0	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	METHOD	314.0	III
16-Jun-2011	SL-059-SA5DN-SB-4.0-5.0	6318826	N	METHOD	7471A	III
16-Jun-2011	SL-059-SA5DN-SB-9.0-10.0	6318827	N	3050B	6010B	III
16-Jun-2011	SL-059-SA5DN-SB-9.0-10.0	6318827	N	3050B	6020	III
16-Jun-2011	SL-059-SA5DN-SB-9.0-10.0	6318827	N	3060A	7199	III
16-Jun-2011	SL-059-SA5DN-SB-9.0-10.0	6318827	N	3550B	8082	III
16-Jun-2011	SL-059-SA5DN-SB-9.0-10.0	6318827	N	3550B	8270C	III
16-Jun-2011	SL-059-SA5DN-SB-9.0-10.0	6318827	N	3550B	8270C SIM	III
16-Jun-2011	SL-059-SA5DN-SB-9.0-10.0	6318827	N	METHOD	300.0	III
16-Jun-2011	SL-059-SA5DN-SB-9.0-10.0	6318827	N	METHOD	314.0	III
16-Jun-2011	SL-059-SA5DN-SB-9.0-10.0	6318827	N	METHOD	7471A	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	3050B	6010B	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	3050B	6020	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	3060A	7199	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	3550B	8270C	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	3550B	8270C SIM	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	5035	8260B	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	5035	8260B SIM	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	METHOD	300.0	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	METHOD	314.0	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0	6318822	N	METHOD	7471A	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0DU	P318822D270243A	DUP	METHOD	300.0	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0DU	P318822D272127A	DUP	METHOD	314.0	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0MS	P318822R260033	MS	3550B	8270C SIM	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0MS	P318822R270257A	MS	METHOD	300.0	III
16-Jun-2011	SL-057-SA5DN-SB-4.0-5.0MS	P318822R272151A	MS	METHOD	314.0	III
16-Jun-2011	SL-057-SA5DN-SB-9.0-10.0	6318823	N	3050B	6010B	III
16-Jun-2011	SL-057-SA5DN-SB-9.0-10.0	6318823	N	3050B	6020	III
16-Jun-2011	SL-057-SA5DN-SB-9.0-10.0	6318823	N	3060A	7199	III
16-Jun-2011	SL-057-SA5DN-SB-9.0-10.0	6318823	N	3550B	8082	III
16-Jun-2011	SL-057-SA5DN-SB-9.0-10.0	6318823	N	3550B	8270C	III
16-Jun-2011	SL-057-SA5DN-SB-9.0-10.0	6318823	N	3550B	8270C SIM	III
16-Jun-2011	SL-057-SA5DN-SB-9.0-10.0	6318823	N	METHOD	300.0	III
16-Jun-2011	SL-057-SA5DN-SB-9.0-10.0	6318823	N	METHOD	314.0	III
16-Jun-2011	SL-057-SA5DN-SB-9.0-10.0	6318823	N	METHOD	7471A	III
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	3050B	6010B	III
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	3050B	6020	III
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	3060A	7199	III
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	3550B	8082	III
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	3550B	8270C SIM	III
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	5035	8260B	III
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	5035	8260B SIM	III
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	METHOD	300.0	III
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	METHOD	314.0	III
16-Jun-2011	SL-058-SA5DN-SB-4.0-5.0	6318824	N	METHOD	7471A	III
16-Jun-2011	SL-058-SA5DN-SB-9.0-10.0	6318825	N	3050B	6010B	III
16-Jun-2011	SL-058-SA5DN-SB-9.0-10.0	6318825	N	3050B	6020	III
16-Jun-2011	SL-058-SA5DN-SB-9.0-10.0	6318825	N	3060A	7199	III
16-Jun-2011	SL-058-SA5DN-SB-9.0-10.0	6318825	N	3550B	8082	III
16-Jun-2011	SL-058-SA5DN-SB-9.0-10.0	6318825	N	3550B	8270C	III
16-Jun-2011	SL-058-SA5DN-SB-9.0-10.0	6318825	N	3550B	8270C SIM	III
16-Jun-2011	SL-058-SA5DN-SB-9.0-10.0	6318825	N	METHOD	300.0	III
16-Jun-2011	SL-058-SA5DN-SB-9.0-10.0	6318825	N	METHOD	314.0	III
16-Jun-2011	SL-058-SA5DN-SB-9.0-10.0	6318825	N	METHOD	6850	III
16-Jun-2011	SL-058-SA5DN-SB-9.0-10.0	6318825	N	METHOD	7471A	III
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	3050B	6010B	III
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	3050B	6020	III
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	3060A	7199	III
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	3550B	8082	III
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	3550B	8270C	III
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	3550B	8270C SIM	III
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	5035	8260B	III
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	5035	8260B SIM	III
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	METHOD	300.0	III
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Jun-2011	SL-061-SA5DN-SB-4.0-5.0	6318828	N	METHOD	7471A	III
16-Jun-2011	SL-061-SA5DN-SB-9.0-10.0	6318829	N	3050B	6010B	III
16-Jun-2011	SL-061-SA5DN-SB-9.0-10.0	6318829	N	3050B	6020	III
16-Jun-2011	SL-061-SA5DN-SB-9.0-10.0	6318829	N	3060A	7199	III
16-Jun-2011	SL-061-SA5DN-SB-9.0-10.0	6318829	N	3550B	8082	III
16-Jun-2011	SL-061-SA5DN-SB-9.0-10.0	6318829	N	3550B	8270C	III
16-Jun-2011	SL-061-SA5DN-SB-9.0-10.0	6318829	N	3550B	8270C SIM	III
16-Jun-2011	SL-061-SA5DN-SB-9.0-10.0	6318829	N	METHOD	300.0	III
16-Jun-2011	SL-061-SA5DN-SB-9.0-10.0	6318829	N	METHOD	314.0	III
16-Jun-2011	SL-061-SA5DN-SB-9.0-10.0	6318829	N	METHOD	7471A	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	3050B	6010B	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	3050B	6020	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	3060A	7199	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	3550B	8082	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	3550B	8270C	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	3550B	8270C SIM	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	5035	8260B	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	5035	8260B SIM	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	METHOD	300.0	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	METHOD	314.0	III
16-Jun-2011	SL-062-SA5DN-SB-4.0-5.0	6318830	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE182 Laboratory: LL

EDD Filename: PrepDE182_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-057-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.5		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-057-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-058-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-058-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.3		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-059-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-061-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-061-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	8.0		0.94	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory:** LL

EDD Filename: PrepDE182_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-062-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	11.7		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-057-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 9:35:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1030		0.0796	MDL	1.12	PQL	mg/Kg	J	L

Sample ID: SL-057-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.06	J	0.400	MDL	5.55	PQL	mg/Kg	U	B
CALCIUM	5230		2.78	MDL	22.2	PQL	mg/Kg	J	E
MANGANESE	337		0.0400	MDL	0.555	PQL	mg/Kg	J	E
PHOSPHORUS	175		0.389	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	2360		12.5	MDL	55.5	PQL	mg/Kg	J	Q
TIN	2.48	J	0.355	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.60	J	0.511	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-057-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 9:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1260		0.0782	MDL	1.10	PQL	mg/Kg	J	L

Sample ID: SL-057-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	3750		2.73	MDL	21.8	PQL	mg/Kg	J	E
MANGANESE	158		0.0392	MDL	0.545	PQL	mg/Kg	J	E
PHOSPHORUS	76.8		0.382	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	1510		12.3	MDL	54.5	PQL	mg/Kg	J	Q
SODIUM	102	J	6.49	MDL	109	PQL	mg/Kg	J	Z
TIN	2.59	J	0.349	MDL	10.9	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory:** LL

EDD Filename: PrepDE182_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-057-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.10	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-058-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 10:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1130		0.0802	MDL	1.13	PQL	mg/Kg	J	L

Sample ID: SL-058-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.82	J	0.423	MDL	5.88	PQL	mg/Kg	J	Z
CALCIUM	10600		2.94	MDL	23.5	PQL	mg/Kg	J	E
MANGANESE	395		0.0423	MDL	0.588	PQL	mg/Kg	J	E
PHOSPHORUS	278		0.411	MDL	11.8	PQL	mg/Kg	J	Q
POTASSIUM	4080		13.3	MDL	58.8	PQL	mg/Kg	J	Q
TIN	2.58	J	0.376	MDL	11.8	PQL	mg/Kg	U	B

Sample ID: SL-058-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 10:45:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1400		0.0794	MDL	1.12	PQL	mg/Kg	J	L

Sample ID: SL-058-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.843	J	0.414	MDL	5.76	PQL	mg/Kg	U	B
CALCIUM	4850		2.88	MDL	23.0	PQL	mg/Kg	J	E
MANGANESE	216		0.0414	MDL	0.576	PQL	mg/Kg	J	E
PHOSPHORUS	211		0.403	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	2610		13.0	MDL	57.6	PQL	mg/Kg	J	Q
TIN	3.08	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.20	J	0.530	MDL	5.76	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory:** LL

EDD Filename: PrepDE182_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-059-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 8:45:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1280		0.0820	MDL	1.15	PQL	mg/Kg	J	L

Sample ID: SL-059-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 8:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.57	J	0.396	MDL	5.50	PQL	mg/Kg	J	Z
CALCIUM	7430		2.75	MDL	22.0	PQL	mg/Kg	J	E
MANGANESE	380		0.0396	MDL	0.550	PQL	mg/Kg	J	E
PHOSPHORUS	310		0.385	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	3860		12.4	MDL	55.0	PQL	mg/Kg	J	Q
TIN	2.49	J	0.352	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-059-SA5DN-SB-9.0-10.0 ***Collected:*** 6/16/2011 8:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1280		0.0838	MDL	1.18	PQL	mg/Kg	J	L

Sample ID: SL-059-SA5DN-SB-9.0-10.0 ***Collected:*** 6/16/2011 8:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.78	J	0.425	MDL	5.90	PQL	mg/Kg	J	Z
CALCIUM	62400		2.95	MDL	23.6	PQL	mg/Kg	J	E
MANGANESE	267		0.0425	MDL	0.590	PQL	mg/Kg	J	E
PHOSPHORUS	418		0.413	MDL	11.8	PQL	mg/Kg	J	Q
POTASSIUM	3010		13.3	MDL	59.0	PQL	mg/Kg	J	Q
TIN	2.25	J	0.378	MDL	11.8	PQL	mg/Kg	U	B
Zirconium	5.44	J	0.543	MDL	5.90	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 2:20:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	743		0.0798	MDL	1.12	PQL	mg/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory:** LL

EDD Filename: PrepDE182_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-061-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 2:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.21	J	0.421	MDL	5.84	PQL	mg/Kg	U	B
CALCIUM	6410		2.92	MDL	23.4	PQL	mg/Kg	J	E
MANGANESE	406		0.0421	MDL	0.584	PQL	mg/Kg	J	E
PHOSPHORUS	308		0.409	MDL	11.7	PQL	mg/Kg	J	Q
POTASSIUM	3950		13.2	MDL	58.4	PQL	mg/Kg	J	Q
TIN	2.81	J	0.374	MDL	11.7	PQL	mg/Kg	U	B
Zirconium	4.45	J	0.537	MDL	5.84	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5DN-SB-9.0-10.0 ***Collected:*** 6/16/2011 2:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1470		0.0807	MDL	1.14	PQL	mg/Kg	J	L

Sample ID: SL-061-SA5DN-SB-9.0-10.0 ***Collected:*** 6/16/2011 2:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.89	J	0.405	MDL	5.63	PQL	mg/Kg	J	Z
CALCIUM	27000		2.81	MDL	22.5	PQL	mg/Kg	J	E
MANGANESE	204		0.0405	MDL	0.563	PQL	mg/Kg	J	E
PHOSPHORUS	314		0.394	MDL	11.3	PQL	mg/Kg	J	Q
POTASSIUM	3090		12.7	MDL	56.3	PQL	mg/Kg	J	Q
TIN	2.54	J	0.360	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	5.15	J	0.518	MDL	5.63	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 2:35:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TITANIUM	1270		0.0827	MDL	1.16	PQL	mg/Kg	J	L

Sample ID: SL-062-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 2:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.43	J	0.419	MDL	5.82	PQL	mg/Kg	J	Z
CALCIUM	9270		2.91	MDL	23.3	PQL	mg/Kg	J	E
MANGANESE	414		0.0419	MDL	0.582	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE182 Laboratory: LL

EDD Filename: PrepDE182_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-062-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	392		0.408	MDL	11.6	PQL	mg/Kg	J	Q
POTASSIUM	3280		13.2	MDL	58.2	PQL	mg/Kg	J	Q
TIN	2.53	J	0.373	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	5.05	J	0.536	MDL	5.82	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-057-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 9:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.113	J	0.0830	MDL	0.224	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	25.7		0.135	MDL	0.448	PQL	mg/Kg	J	A
COBALT	9.81		0.0224	MDL	0.112	PQL	mg/Kg	J	A
COPPER	10.6		0.0897	MDL	0.448	PQL	mg/Kg	J	Q, A
LEAD	6.99		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	19.0		0.112	MDL	0.448	PQL	mg/Kg	J	Q, A
SILVER	0.0208	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	47.8		0.0247	MDL	0.112	PQL	mg/Kg	J	A
ZINC	46.0		0.628	MDL	3.36	PQL	mg/Kg	J	E, A

Sample ID: SL-057-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 9:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0839	U	0.0839	MDL	0.227	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0805	J	0.0499	MDL	0.113	PQL	mg/Kg	J	Z
CHROMIUM	20.9		0.136	MDL	0.454	PQL	mg/Kg	J	A
COBALT	6.36		0.0227	MDL	0.113	PQL	mg/Kg	J	A
COPPER	6.98		0.0907	MDL	0.454	PQL	mg/Kg	J	Q, A
LEAD	4.95		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, A
NICKEL	9.98		0.113	MDL	0.454	PQL	mg/Kg	J	Q, A
VANADIUM	34.8		0.0249	MDL	0.113	PQL	mg/Kg	J	A
ZINC	38.3		0.635	MDL	3.40	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory:** LL

EDD Filename: PrepDE182_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-058-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 10:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.136	J	0.0655	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-058-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 10:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0935	J	0.0836	MDL	0.226	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	35.0		0.136	MDL	0.452	PQL	mg/Kg	J	A
COBALT	10.3		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	13.8		0.0904	MDL	0.452	PQL	mg/Kg	J	Q, A
LEAD	9.35		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	20.3		0.113	MDL	0.452	PQL	mg/Kg	J	Q, A
SILVER	0.0509	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	59.0		0.0249	MDL	0.113	PQL	mg/Kg	J	A
ZINC	72.6		0.633	MDL	3.39	PQL	mg/Kg	J	E, A

Sample ID: SL-058-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 10:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0819	U	0.0819	MDL	0.221	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0932	J	0.0487	MDL	0.111	PQL	mg/Kg	J	Z
CHROMIUM	30.3		0.133	MDL	0.443	PQL	mg/Kg	J	A
COBALT	5.24		0.0221	MDL	0.111	PQL	mg/Kg	J	A
COPPER	11.5		0.0886	MDL	0.443	PQL	mg/Kg	J	Q, A
LEAD	7.07		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, A
NICKEL	13.7		0.111	MDL	0.443	PQL	mg/Kg	J	Q, A
SILVER	0.0591	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	52.6		0.0244	MDL	0.111	PQL	mg/Kg	J	A
ZINC	58.8		0.620	MDL	3.32	PQL	mg/Kg	J	E, A

Sample ID: SL-059-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 8:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.100	J	0.0657	MDL	0.453	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE182 Laboratory: LL

EDD Filename: PrepDE182_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-059-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 8:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.144	J	0.0838	MDL	0.226	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	38.6		0.136	MDL	0.453	PQL	mg/Kg	J	A
COBALT	12.3		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	15.4		0.0906	MDL	0.453	PQL	mg/Kg	J	Q, A
LEAD	9.75		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	22.3		0.113	MDL	0.453	PQL	mg/Kg	J	Q, A
SILVER	0.0320	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	67.6		0.0249	MDL	0.113	PQL	mg/Kg	J	A
ZINC	85.0		0.634	MDL	3.40	PQL	mg/Kg	J	E, A

Sample ID: SL-059-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 8:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0865	U	0.0865	MDL	0.234	PQL	mg/Kg	UJ	Q, E
CHROMIUM	27.9		0.140	MDL	0.468	PQL	mg/Kg	J	A
COBALT	9.49		0.0234	MDL	0.117	PQL	mg/Kg	J	A
COPPER	12.8		0.0935	MDL	0.468	PQL	mg/Kg	J	Q, A
LEAD	8.06		0.0119	MDL	0.234	PQL	mg/Kg	J	Q, A
NICKEL	17.7		0.117	MDL	0.468	PQL	mg/Kg	J	Q, A
SILVER	0.0363	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	50.2		0.0257	MDL	0.117	PQL	mg/Kg	J	A
ZINC	53.5		0.655	MDL	3.51	PQL	mg/Kg	J	E, A

Sample ID: SL-061-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:20:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.153	J	0.0839	MDL	0.227	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	34.6		0.136	MDL	0.454	PQL	mg/Kg	J	A
COBALT	15.2		0.0227	MDL	0.113	PQL	mg/Kg	J	A
COPPER	16.0		0.0907	MDL	0.454	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory:** LL

EDD Filename: PrepDE182_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-061-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 2:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	11.2		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, A
NICKEL	22.3		0.113	MDL	0.454	PQL	mg/Kg	J	Q, A
SILVER	0.0591	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	59.1		0.0250	MDL	0.113	PQL	mg/Kg	J	A
ZINC	74.8		0.635	MDL	3.40	PQL	mg/Kg	J	E, A

Sample ID: SL-061-SA5DN-SB-9.0-10.0 ***Collected:*** 6/16/2011 2:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0833	MDL	0.225	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	33.0		0.135	MDL	0.450	PQL	mg/Kg	J	A
COBALT	12.1		0.0225	MDL	0.113	PQL	mg/Kg	J	A
COPPER	14.2		0.0901	MDL	0.450	PQL	mg/Kg	J	Q, A
LEAD	8.97		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	21.6		0.113	MDL	0.450	PQL	mg/Kg	J	Q, A
SILVER	0.0319	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	62.5		0.0248	MDL	0.113	PQL	mg/Kg	J	A
ZINC	65.7		0.631	MDL	3.38	PQL	mg/Kg	J	E, A

Sample ID: SL-062-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 2:35:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0670	J	0.0656	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 2:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.131	J	0.0837	MDL	0.226	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	37.3		0.136	MDL	0.452	PQL	mg/Kg	J	A
COBALT	12.7		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	17.0		0.0905	MDL	0.452	PQL	mg/Kg	J	Q, A
LEAD	9.70		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	23.3		0.113	MDL	0.452	PQL	mg/Kg	J	Q, A
SILVER	0.0477	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	66.6		0.0249	MDL	0.113	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory:** LL

EDD Filename: PrepDE182_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 6020 **Matrix:** SO

Sample ID: SL-062-SA5DN-SB-4.0-5.0 **Collected:** 6/16/2011 2:35:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	77.4		0.633	MDL	3.39	PQL	mg/Kg	J	E, A

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

Sample ID: SL-057-SA5DN-SB-4.0-5.0 **Collected:** 6/16/2011 9:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-057-SA5DN-SB-9.0-10.0 **Collected:** 6/16/2011 9:40:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-058-SA5DN-SB-4.0-5.0 **Collected:** 6/16/2011 10:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-058-SA5DN-SB-9.0-10.0 **Collected:** 6/16/2011 10:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-059-SA5DN-SB-9.0-10.0 **Collected:** 6/16/2011 8:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-061-SA5DN-SB-4.0-5.0 **Collected:** 6/16/2011 2:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory:** LL

EDD Filename: PrepDE182_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-061-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-062-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.81	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-057-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0323	J	0.0076	MDL	0.108	PQL	mg/Kg	U	B, B

Sample ID: SL-057-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0253	J	0.0074	MDL	0.105	PQL	mg/Kg	U	B, B

Sample ID: SL-058-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0229	J	0.0077	MDL	0.109	PQL	mg/Kg	U	B, B

Sample ID: SL-058-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0157	J	0.0078	MDL	0.111	PQL	mg/Kg	U	B, B

Sample ID: SL-059-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0199	J	0.0080	MDL	0.113	PQL	mg/Kg	U	B, B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory:** LL

EDD Filename: PrepDE182_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-061-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0135	J	0.0081	MDL	0.116	PQL	mg/Kg	U	B, B

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-062-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	20	MDL	400	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: SL-061-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.65	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-061-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 2:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.3	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-062-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.9	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.8	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	1.8	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory:** LL

EDD Filename: PrepDE182_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-057-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 9:35:00 ***Analysis Type:*** RES ***Dilution:*** 0.8

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.2	J	0.22	MDL	3.7	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.07	MDL	3.7	PQL	ug/Kg	J	Z

Sample ID: SL-058-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 10:40:00 ***Analysis Type:*** RES ***Dilution:*** 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.3		6.8	MDL	8.1	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	3.8	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-059-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 8:45:00 ***Analysis Type:*** RES ***Dilution:*** 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.3	J	0.23	MDL	3.8	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-061-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 2:20:00 ***Analysis Type:*** RES ***Dilution:*** 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.2	J	0.24	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.1	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-062-SA5DN-SB-4.0-5.0 ***Collected:*** 6/16/2011 2:35:00 ***Analysis Type:*** RES ***Dilution:*** 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.4		7.0	MDL	8.4	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.3	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: PrepDE182_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: PrepDE182_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: PrepDE182_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE182

Method Blank Outlier Report

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: DE182_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P16808CB221824	6/24/2011 6:24:00 PM	BORON	0.483 mg/Kg	SL-057-SA5DN-SB-4.0-5.0
		CALCIUM	10.7 mg/Kg	SL-057-SA5DN-SB-9.0-10.0
		IRON	3.28 mg/Kg	SL-058-SA5DN-SB-4.0-5.0
		MAGNESIUM	1.44 mg/Kg	SL-058-SA5DN-SB-9.0-10.0
		MANGANESE	0.0550 mg/Kg	SL-059-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.59 mg/Kg	SL-059-SA5DN-SB-9.0-10.0
		STRONTIUM	0.0550 mg/Kg	SL-061-SA5DN-SB-4.0-5.0
		TIN	2.05 mg/Kg	SL-061-SA5DN-SB-9.0-10.0
				SL-062-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-057-SA5DN-SB-4.0-5.0(RES)	BORON	1.06 mg/Kg	1.06U mg/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	TIN	2.48 mg/Kg	2.48U mg/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	BORON	0.843 mg/Kg	0.843U mg/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	TIN	2.49 mg/Kg	2.49U mg/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	TIN	2.25 mg/Kg	2.25U mg/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	BORON	2.21 mg/Kg	2.21U mg/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P16826BB220933A	6/20/2011 9:33:00 AM	COPPER	0.109 mg/Kg	SL-057-SA5DN-SB-4.0-5.0
				SL-057-SA5DN-SB-9.0-10.0
				SL-058-SA5DN-SB-4.0-5.0
				SL-058-SA5DN-SB-9.0-10.0
				SL-059-SA5DN-SB-4.0-5.0
				SL-059-SA5DN-SB-9.0-10.0
				SL-061-SA5DN-SB-4.0-5.0
				SL-061-SA5DN-SB-9.0-10.0
				SL-062-SA5DN-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: DE182_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **7471A**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P16811DB220706	6/21/2011 7:06:00 AM	MERCURY	0.0133 mg/Kg	SL-057-SA5DN-SB-4.0-5.0 SL-057-SA5DN-SB-9.0-10.0 SL-058-SA5DN-SB-4.0-5.0 SL-058-SA5DN-SB-9.0-10.0 SL-059-SA5DN-SB-4.0-5.0 SL-059-SA5DN-SB-9.0-10.0 SL-061-SA5DN-SB-4.0-5.0 SL-061-SA5DN-SB-9.0-10.0 SL-062-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-057-SA5DN-SB-4.0-5.0(RES)	MERCURY	0.0323 mg/Kg	0.0323U mg/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	MERCURY	0.0253 mg/Kg	0.0253U mg/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	MERCURY	0.0229 mg/Kg	0.0229U mg/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	MERCURY	0.0157 mg/Kg	0.0157U mg/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	MERCURY	0.0199 mg/Kg	0.0199U mg/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	MERCURY	0.0135 mg/Kg	0.0135U mg/Kg

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB90B210115A	6/20/2011 1:15:00 AM	ACETONE METHYLENE CHLORIDE	11 ug/Kg 1.0 ug/Kg	SL-057-SA5DN-SB-4.0-5.0 SL-058-SA5DN-SB-4.0-5.0 SL-059-SA5DN-SB-4.0-5.0 SL-061-SA5DN-SB-4.0-5.0 SL-062-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-057-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	3.7U ug/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	ACETONE	8.3 ug/Kg	8.3U ug/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.8 ug/Kg	4.1U ug/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	3.8U ug/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	3.9U ug/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	ACETONE	8.4 ug/Kg	8.4U ug/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	4.2U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: DE182_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **300.0**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-057-SA5DN-SB-4.0-5.0MS (SL-057-SA5DN-SB-4.0-5.0 SL-057-SA5DN-SB-9.0-10.0 SL-058-SA5DN-SB-4.0-5.0 SL-058-SA5DN-SB-9.0-10.0 SL-059-SA5DN-SB-4.0-5.0 SL-059-SA5DN-SB-9.0-10.0 SL-061-SA5DN-SB-4.0-5.0 SL-061-SA5DN-SB-9.0-10.0 SL-062-SA5DN-SB-4.0-5.0)	FLUORIDE	49	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: DE182_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-057-SA5DN-SB-4.0-5.0DUP (SL-057-SA5DN-SB-4.0-5.0 SL-057-SA5DN-SB-9.0-10.0 SL-058-SA5DN-SB-4.0-5.0 SL-058-SA5DN-SB-9.0-10.0 SL-059-SA5DN-SB-4.0-5.0 SL-059-SA5DN-SB-9.0-10.0 SL-061-SA5DN-SB-4.0-5.0 SL-061-SA5DN-SB-9.0-10.0 SL-062-SA5DN-SB-4.0-5.0)	FLUORIDE	25	20.00	No Qual, OK by Difference

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: DE182_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P16826BQ220936A (SL-057-SA5DN-SB-4.0-5.0 SL-057-SA5DN-SB-9.0-10.0 SL-058-SA5DN-SB-4.0-5.0 SL-058-SA5DN-SB-9.0-10.0 SL-059-SA5DN-SB-4.0-5.0 SL-059-SA5DN-SB-9.0-10.0 SL-061-SA5DN-SB-4.0-5.0 SL-061-SA5DN-SB-9.0-10.0 SL-062-SA5DN-SB-4.0-5.0)	ANTIMONY	65	-	80.00-120.00	-	ANTIMONY	No Qual SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P16808CQ221828 (SL-057-SA5DN-SB-4.0-5.0 SL-057-SA5DN-SB-9.0-10.0 SL-058-SA5DN-SB-4.0-5.0 SL-058-SA5DN-SB-9.0-10.0 SL-059-SA5DN-SB-4.0-5.0 SL-059-SA5DN-SB-9.0-10.0 SL-061-SA5DN-SB-4.0-5.0 SL-061-SA5DN-SB-9.0-10.0 SL-062-SA5DN-SB-4.0-5.0)	IRON	79	-	80.00-120.00	-	IRON	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: DE182_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA5DN-SB-4.0-5.0	BORON	J	1.06	5.55	PQL	mg/Kg	J (all detects)
	TIN	J	2.48	11.1	PQL	mg/Kg	
	Zirconium	J	4.60	5.55	PQL	mg/Kg	
SL-057-SA5DN-SB-9.0-10.0	SODIUM	J	102	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.59	10.9	PQL	mg/Kg	
	Zirconium	J	3.10	5.45	PQL	mg/Kg	
SL-058-SA5DN-SB-4.0-5.0	BORON	J	3.82	5.88	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	11.8	PQL	mg/Kg	
SL-058-SA5DN-SB-9.0-10.0	BORON	J	0.843	5.76	PQL	mg/Kg	J (all detects)
	TIN	J	3.08	11.5	PQL	mg/Kg	
	Zirconium	J	4.20	5.76	PQL	mg/Kg	
SL-059-SA5DN-SB-4.0-5.0	BORON	J	3.57	5.50	PQL	mg/Kg	J (all detects)
	TIN	J	2.49	11.0	PQL	mg/Kg	
SL-059-SA5DN-SB-9.0-10.0	BORON	J	4.78	5.90	PQL	mg/Kg	J (all detects)
	TIN	J	2.25	11.8	PQL	mg/Kg	
	Zirconium	J	5.44	5.90	PQL	mg/Kg	
SL-061-SA5DN-SB-4.0-5.0	BORON	J	2.21	5.84	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	11.7	PQL	mg/Kg	
	Zirconium	J	4.45	5.84	PQL	mg/Kg	
SL-061-SA5DN-SB-9.0-10.0	BORON	J	2.89	5.63	PQL	mg/Kg	J (all detects)
	TIN	J	2.54	11.3	PQL	mg/Kg	
	Zirconium	J	5.15	5.63	PQL	mg/Kg	
SL-062-SA5DN-SB-4.0-5.0	BORON	J	3.43	5.82	PQL	mg/Kg	J (all detects)
	TIN	J	2.53	11.6	PQL	mg/Kg	
	Zirconium	J	5.05	5.82	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.113	0.224	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0208	0.112	PQL	mg/Kg	
SL-057-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0805	0.113	PQL	mg/Kg	J (all detects)
SL-058-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0935	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.136	0.452	PQL	mg/Kg	
	SILVER	J	0.0509	0.113	PQL	mg/Kg	
SL-058-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0932	0.111	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0591	0.111	PQL	mg/Kg	
SL-059-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.144	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.100	0.453	PQL	mg/Kg	
	SILVER	J	0.0320	0.113	PQL	mg/Kg	
SL-059-SA5DN-SB-9.0-10.0	SILVER	J	0.0363	0.117	PQL	mg/Kg	J (all detects)
SL-061-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.153	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.454	PQL	mg/Kg	
	SILVER	J	0.0591	0.113	PQL	mg/Kg	
SL-061-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.136	0.225	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0319	0.113	PQL	mg/Kg	
SL-062-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.131	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0670	0.452	PQL	mg/Kg	
	SILVER	J	0.0477	0.113	PQL	mg/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: DE182_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.43	1.2	PQL	mg/Kg	J (all detects)
SL-057-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)
SL-058-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)
SL-058-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.32	1.2	PQL	mg/Kg	J (all detects)
SL-059-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.26	1.2	PQL	mg/Kg	J (all detects)
SL-061-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.2	PQL	mg/Kg	J (all detects)
SL-061-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.27	1.2	PQL	mg/Kg	J (all detects)
SL-062-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.81	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA5DN-SB-4.0-5.0	MERCURY	J	0.0323	0.108	PQL	mg/Kg	J (all detects)
SL-057-SA5DN-SB-9.0-10.0	MERCURY	J	0.0253	0.105	PQL	mg/Kg	J (all detects)
SL-058-SA5DN-SB-4.0-5.0	MERCURY	J	0.0229	0.109	PQL	mg/Kg	J (all detects)
SL-058-SA5DN-SB-9.0-10.0	MERCURY	J	0.0157	0.111	PQL	mg/Kg	J (all detects)
SL-059-SA5DN-SB-4.0-5.0	MERCURY	J	0.0199	0.113	PQL	mg/Kg	J (all detects)
SL-061-SA5DN-SB-4.0-5.0	MERCURY	J	0.0135	0.116	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.2 0.08	3.7 3.7	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-058-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	3.8 0.14	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-059-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.3 0.11	3.8 3.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-061-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.2 0.1	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-062-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.3	4.2	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE182 **Laboratory: LL**

EDD Filename: DE182_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-062-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	400	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-061-SA5DN-SB-4.0-5.0	CHRYSENE	J	0.65	1.9	PQL	ug/Kg	J (all detects)
SL-061-SA5DN-SB-9.0-10.0	BENZO(A)PYRENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	
SL-062-SA5DN-SB-4.0-5.0	BENZO(A)PYRENE	J	1.9	2.0	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.3	2.0	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.8	2.0	PQL	ug/Kg	
	CHRYSENE	J	1.8	2.0	PQL	ug/Kg	

LDC #: 26277M4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/30/11
SDG #: DE182 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	DZ180
VII.	Duplicate Sample Analysis	N	↓ (grnd Ca, Mn)
VIII.	Laboratory Control Samples (LCS)	SW	SRM see DZ180
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, Co, Cu, Pb, Ni, V, Zn
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-057-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-057-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-058-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-058-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-059-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-059-SA5DN-SB-9.0-10.0	16		26		36	
7	SL-061-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-061-SA5DN-SB-9.0-10.0	18		28		38	
9	SL-062-SA5DN-SB-4.0-5.0	19		29		39	
10		20		30		40	

Notes:

LDC #: 26277M4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: WC
2nd Reviewer: [illegible]

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 166.7X
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 1-5

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	5					
Hg			0.15	0.125	0.032	0.025	0.023	0.016	0.020					

Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 6-9

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	7									
Hg			0.073	0.061	0.013									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE184

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Jun-2011	TB-062011	6322170	TB	5030B	8015M	III
20-Jun-2011	TB-062011	6322170	TB	5030B	8260B	III
20-Jun-2011	TB-062011	6322170	TB	5030B	8260B SIM	III
20-Jun-2011	SL-073-SA5DN-SB-5.0	6322169	N	5035	8260B	III
20-Jun-2011	SL-073-SA5DN-SB-5.0	6322169	N	5035	8260B SIM	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	3050B	6010B	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	3050B	6020	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	3060A	7199	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	3550B	8082	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	3550B	8270C	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	3550B	8270C SIM	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	5035	8260B	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	5035	8260B SIM	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	METHOD	300.0	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	METHOD	314.0	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0	6322164	N	METHOD	7471A	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0DU	P322164D271511A	DUP	METHOD	314.0	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0DU	P322164D271739B	DUP	METHOD	300.0	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0MS	P322164R241715A	MS	3550B	8082	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0MS	P322164R261216	MS	3550B	8270C SIM	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0MS	P322164R271534A	MS	METHOD	314.0	III
20-Jun-2011	SL-093-SA5DN-SB-4.0-5.0MS	P322164R271754B	MS	METHOD	300.0	III
20-Jun-2011	SL-093-SA5DN-SB-9.0-10.0	6322165	N	3050B	6010B	III
20-Jun-2011	SL-093-SA5DN-SB-9.0-10.0	6322165	N	3050B	6020	III
20-Jun-2011	SL-093-SA5DN-SB-9.0-10.0	6322165	N	3060A	7199	III
20-Jun-2011	SL-093-SA5DN-SB-9.0-10.0	6322165	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Jun-2011	SL-093-SA5DN-SB-9.0-10.0	6322165	N	3550B	8270C	III
20-Jun-2011	SL-093-SA5DN-SB-9.0-10.0	6322165	N	3550B	8270C SIM	III
20-Jun-2011	SL-093-SA5DN-SB-9.0-10.0	6322165	N	METHOD	300.0	III
20-Jun-2011	SL-093-SA5DN-SB-9.0-10.0	6322165	N	METHOD	314.0	III
20-Jun-2011	SL-093-SA5DN-SB-9.0-10.0	6322165	N	METHOD	7471A	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	3050B	6010B	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	3050B	6020	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	3060A	7199	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	3546	1625C	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	3550B	8015B	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	3550B	8015M	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	3550B	8082	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	3550B	8270C	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	3550B	8270C SIM	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	5035	8015M	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	5035	8260B	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	5035	8260B SIM	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	8330	8330A	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	METHOD	300.0	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	METHOD	314.0	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	METHOD	7471A	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	METHOD	8015B	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	METHOD	8015M	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	METHOD	8315A	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0	6322166	N	METHOD	9012B	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0DU	P322166D271816A	DUP	METHOD	9012B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0MS	P322166R242012A	MS	METHOD	8315A	III
20-Jun-2011	SL-117-SA5DN-SB-4.0-5.0MS	P322166R271817A	MS	METHOD	9012B	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	3050B	6010B	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	3050B	6020	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	3060A	7199	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	3546	1625C	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	3550B	8015B	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	3550B	8015M	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	3550B	8082	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	3550B	8270C	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	3550B	8270C SIM	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	5035	8015M	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	5035	8260B	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	5035	8260B SIM	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	8330	8330A	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	METHOD	300.0	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	METHOD	314.0	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	METHOD	7471A	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	METHOD	8015B	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	METHOD	8015M	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	METHOD	8315A	III
20-Jun-2011	SL-118-SA5DN-SB-4.0-5.0	6322167	N	METHOD	9012B	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	3050B	6010B	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	3050B	6020	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	3060A	7199	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	3546	1625C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	3550B	8015B	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	3550B	8015M	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	3550B	8082	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	3550B	8270C	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	3550B	8270C SIM	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	5035	8015M	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	5035	8260B	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	5035	8260B SIM	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	8330	8330A	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	METHOD	300.0	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	METHOD	314.0	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	METHOD	7471A	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	METHOD	8015B	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	METHOD	8015M	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	METHOD	8315A	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0	6322168	N	METHOD	9012B	III
20-Jun-2011	SL-119-SA5DN-SB-4.0-5.0MS	P322168R322008A	MS	METHOD	8015B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE184 **Laboratory:** LL

EDD Filename: DE184_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-093-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-093-SA5DN-SB-9.0-10.0 *Collected:* 6/20/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	8.2		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-117-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.90	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.5	J	0.90	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.89	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-093-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	9230		2.85	MDL	22.8	PQL	mg/Kg	J	E
PHOSPHORUS	474		0.399	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	4060		12.9	MDL	57.0	PQL	mg/Kg	J	Q
TIN	2.79	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
TITANIUM	1560		0.0809	MDL	1.14	PQL	mg/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE184 **Laboratory:** LL

EDD Filename: DE184_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-093-SA5DN-SB-9.0-10.0 *Collected:* 6/20/2011 12:30:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	113000		13.8	MDL	111	PQL	mg/Kg	J	E

Sample ID: SL-093-SA5DN-SB-9.0-10.0 *Collected:* 6/20/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.56	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
PHOSPHORUS	286		0.388	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	2240		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	2.71	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
TITANIUM	1210		0.0787	MDL	1.11	PQL	mg/Kg	J	L
Zirconium	4.16	J	0.510	MDL	5.54	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.99	J	0.394	MDL	5.47	PQL	mg/Kg	J	Z
CALCIUM	6460		2.73	MDL	21.9	PQL	mg/Kg	J	E
PHOSPHORUS	360		0.383	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	3690		12.4	MDL	54.7	PQL	mg/Kg	J	Q
TIN	2.94	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
TITANIUM	1240		0.0776	MDL	1.09	PQL	mg/Kg	J	L
Zirconium	5.02	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.49	J	0.395	MDL	5.49	PQL	mg/Kg	J	Z
CALCIUM	5750		2.74	MDL	22.0	PQL	mg/Kg	J	E
PHOSPHORUS	337		0.384	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	3230		12.4	MDL	54.9	PQL	mg/Kg	J	Q
TIN	3.10	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	1510		0.0779	MDL	1.10	PQL	mg/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE184 Laboratory: LL

EDD Filename: DE184_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-119-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.32	J	0.405	MDL	5.62	PQL	mg/Kg	J	Z
CALCIUM	5670		2.81	MDL	22.5	PQL	mg/Kg	J	E
PHOSPHORUS	309		0.394	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3340		12.7	MDL	56.2	PQL	mg/Kg	J	Q
TIN	3.34	J	0.360	MDL	11.2	PQL	mg/Kg	U	B
TITANIUM	1480		0.0798	MDL	1.12	PQL	mg/Kg	J	L

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-093-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 12:25:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.324	J	0.0661	MDL	0.456	PQL	mg/Kg	J	Z

Sample ID: SL-093-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 12:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.369		0.0843	MDL	0.228	PQL	mg/Kg	UJ	B, Q
COPPER	28.7		0.0911	MDL	0.456	PQL	mg/Kg	J	E
LEAD	14.4		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E, E
SILVER	0.0543	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-093-SA5DN-SB-9.0-10.0 *Collected:* 6/20/2011 12:30:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0865	J	0.0649	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-093-SA5DN-SB-9.0-10.0 *Collected:* 6/20/2011 12:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.247		0.0828	MDL	0.224	PQL	mg/Kg	UJ	B, Q
COPPER	19.4		0.0895	MDL	0.448	PQL	mg/Kg	J	E
LEAD	11.8		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, E, E
SILVER	0.0584	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE184 **Laboratory:** LL

EDD Filename: DE184_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-117-SA5DN-SB-4.0-5.0 ***Collected:*** 6/20/2011 2:20:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0650	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5DN-SB-4.0-5.0 ***Collected:*** 6/20/2011 2:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.285		0.0801	MDL	0.217	PQL	mg/Kg	UJ	B, Q
COPPER	19.5		0.0866	MDL	0.433	PQL	mg/Kg	J	E
LEAD	11.3		0.0110	MDL	0.217	PQL	mg/Kg	J	Q, E, E
SILVER	0.0647	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5DN-SB-4.0-5.0 ***Collected:*** 6/20/2011 3:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0846	J	0.0618	MDL	0.426	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5DN-SB-4.0-5.0 ***Collected:*** 6/20/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.390		0.0789	MDL	0.213	PQL	mg/Kg	UJ	B, Q
COPPER	23.0		0.0853	MDL	0.426	PQL	mg/Kg	J	E
LEAD	13.5		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, E, E
SILVER	0.0859	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5DN-SB-4.0-5.0 ***Collected:*** 6/20/2011 3:40:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0832	J	0.0640	MDL	0.441	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5DN-SB-4.0-5.0 ***Collected:*** 6/20/2011 3:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.383		0.0816	MDL	0.221	PQL	mg/Kg	UJ	B, Q
COPPER	24.9		0.0882	MDL	0.441	PQL	mg/Kg	J	E
LEAD	14.8		0.0112	MDL	0.221	PQL	mg/Kg	J	Q, E, E
SILVER	0.0699	J	0.0157	MDL	0.110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE184 Laboratory: LL

EDD Filename: DE184_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-093-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.54	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-118-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-119-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.53	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-093-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 12:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.55	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-093-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 12:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	20	MDL	390	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-117-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 2:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.39	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-073-SA5DN-SB-5.0 *Collected:* 6/20/2011 9:45:00 *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.8	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.16	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-093-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 12:25:00 *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	12		7.3	MDL	8.7	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.1	J	0.26	MDL	4.3	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.3	PQL	ug/Kg	J	Z

Sample ID: SL-117-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	10		7.6	MDL	9.1	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.0	J	0.27	MDL	4.6	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.09	MDL	4.6	PQL	ug/Kg	J	Z

Sample ID: SL-118-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	10		7.5	MDL	9.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	3.0	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **SL-119-SA5DN-SB-4.0-5.0** ***Collected:*** **6/20/2011 3:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.88**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ACETONE	8.8		6.7	MDL	8.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.1	J	0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE184

Method Blank Outlier Report

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17208BB221009	6/24/2011 10:09:00 AM	IRON	4.19 mg/Kg	SL-093-SA5DN-SB-4.0-5.0
		MAGNESIUM	0.703 mg/Kg	SL-093-SA5DN-SB-9.0-10.0
		MANGANESE	0.0380 mg/Kg	SL-117-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.71 mg/Kg	SL-118-SA5DN-SB-4.0-5.0
		TIN	1.71 mg/Kg	SL-119-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-093-SA5DN-SB-4.0-5.0(RES)	TIN	2.79 mg/Kg	2.79U mg/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	TIN	3.10 mg/Kg	3.10U mg/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	TIN	3.34 mg/Kg	3.34U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17226AB220808A	6/22/2011 8:08:00 AM	ANTIMONY	0.101 mg/Kg	SL-093-SA5DN-SB-4.0-5.0 SL-093-SA5DN-SB-9.0-10.0 SL-117-SA5DN-SB-4.0-5.0 SL-118-SA5DN-SB-4.0-5.0 SL-119-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-093-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.369 mg/Kg	0.369U mg/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.247 mg/Kg	0.247U mg/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.285 mg/Kg	0.285U mg/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.390 mg/Kg	0.390U mg/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.383 mg/Kg	0.383U mg/Kg

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB96B211423A	6/23/2011 2:23:00 PM	ACETONE	11 ug/Kg	SL-073-SA5DN-SB-5.0
		METHYLENE CHLORIDE	2.0 ug/Kg	SL-093-SA5DN-SB-4.0-5.0 SL-117-SA5DN-SB-4.0-5.0 SL-118-SA5DN-SB-4.0-5.0 SL-119-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-073-SA5DN-SB-5.0(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	4.2U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-093-SA5DN-SB-4.0-5.0(RES)	ACETONE	12 ug/Kg	12U ug/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.1 ug/Kg	4.3U ug/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	ACETONE	10 ug/Kg	10U ug/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.0 ug/Kg	4.6U ug/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	ACETONE	10 ug/Kg	10U ug/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.0 ug/Kg	4.5U ug/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	ACETONE	8.8 ug/Kg	8.8U ug/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.1 ug/Kg	4.0U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

***Method:* 300.0**
***Matrix:* SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-093-SA5DN-SB-4.0-5.0MS (SL-093-SA5DN-SB-4.0-5.0 SL-093-SA5DN-SB-9.0-10.0 SL-117-SA5DN-SB-4.0-5.0 SL-118-SA5DN-SB-4.0-5.0 SL-119-SA5DN-SB-4.0-5.0)	FLUORIDE	72	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11743AQ241637A P11743AY241619A (SL-093-SA5DN -SB-4.0-5.0 SL -093-SA5DN -SB-9.0-10.0 SL -117-SA5DN -SB-4.0-5.0 SL -118-SA5DN -SB-4.0-5.0 SL -119-SA5DN -SB-4.0-5.0)	Aroclor 5442	119	111	36.00-106.00	-	Aroclor 5432, 5442, 5460	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P17226AQ220811A (SL-093-SA5DN -SB-4.0-5.0 SL -093-SA5DN -SB-9.0-10.0 SL -117-SA5DN -SB-4.0-5.0 SL -118-SA5DN -SB-4.0-5.0 SL -119-SA5DN -SB-4.0-5.0)	ANTIMONY	142	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-117-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)
SL-118-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-093-SA5DN-SB-4.0-5.0	TIN	J	2.79	11.4	PQL	mg/Kg	J (all detects)
SL-093-SA5DN-SB-9.0-10.0	BORON	J	2.56	5.54	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	11.1	PQL	mg/Kg	
	Zirconium	J	4.16	5.54	PQL	mg/Kg	
SL-117-SA5DN-SB-4.0-5.0	BORON	J	2.99	5.47	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	10.9	PQL	mg/Kg	
	Zirconium	J	5.02	5.47	PQL	mg/Kg	
SL-118-SA5DN-SB-4.0-5.0	BORON	J	3.49	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	3.10	11.0	PQL	mg/Kg	
SL-119-SA5DN-SB-4.0-5.0	BORON	J	2.32	5.62	PQL	mg/Kg	J (all detects)
	TIN	J	3.34	11.2	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-093-SA5DN-SB-4.0-5.0	SELENIUM	J	0.324	0.456	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0543	0.114	PQL	mg/Kg	
SL-093-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0865	0.448	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0584	0.112	PQL	mg/Kg	
SL-117-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0650	0.433	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0647	0.108	PQL	mg/Kg	
SL-118-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0846	0.426	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0859	0.107	PQL	mg/Kg	
SL-119-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0832	0.441	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0699	0.110	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-093-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.2	PQL	mg/Kg	J (all detects)
SL-117-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.54	1.1	PQL	mg/Kg	J (all detects)
SL-118-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-119-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.53	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE184 **Laboratory: LL**

EDD Filename: DE184_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-093-SA5DN-SB-4.0-5.0	AROCLOR 1260	J	0.55	2.0	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA5DN-SB-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.8 0.16	4.2 4.2	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-093-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	2.1 0.11	4.3 4.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-117-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	2.0 0.10	4.6 4.6	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-118-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	3.0 0.15	4.5 4.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-119-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	2.1 0.10	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-093-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	390	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-117-SA5DN-SB-4.0-5.0	CHRYSENE	J	0.39	1.9	PQL	ug/Kg	J (all detects)

LDC #: 26277O4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/30/11
SDG #: DE184 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No final
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} DE199
VII.	Duplicate Sample Analysis	N	↓
VIII.	Laboratory Control Samples (LCS)	SW	See ↓
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	~~A~~ ✓
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-093-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-093-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-117-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-118-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-119-SA5DN-SB-4.0-5.0	15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

SAMPLE DELIVERY GROUP

DE185

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jun-2011	TB-062111	6323488	TB	5030B	8015M	III
21-Jun-2011	TB-062111	6323488	TB	5030B	8260B	III
21-Jun-2011	TB-062111	6323488	TB	5030B	8260B SIM	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	3050B	6010B	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	3050B	6020	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	3060A	7199	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	3546	1625C	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	3550B	8015B	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	3550B	8015M	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	3550B	8082	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	3550B	8270C	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	3550B	8270C SIM	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	5035	8015M	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	5035	8260B	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	5035	8260B SIM	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	8330	8330A	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	METHOD	300.0	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	METHOD	314.0	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	METHOD	7471A	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	METHOD	8015B	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	METHOD	8015M	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	METHOD	8315A	III
21-Jun-2011	SL-120-SA5DN-SB-4.0-5.0	6323483	N	METHOD	9012B	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	3050B	6010B	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	3050B	6020	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	3546	1625C	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	3550B	8015B	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	3550B	8015M	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	3550B	8082	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	3550B	8270C	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	3550B	8270C SIM	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	5035	8015M	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	5035	8260B	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	5035	8260B SIM	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	8330	8330A	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	METHOD	300.0	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	METHOD	314.0	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	METHOD	7471A	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	METHOD	8015B	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	METHOD	8015M	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	METHOD	8315A	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0	6323484	N	METHOD	9012B	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0DU	P323484D272142B	DUP	METHOD	9012B	III
21-Jun-2011	SL-121-SA5DN-SB-4.0-5.0MS	P323484R272143B	MS	METHOD	9012B	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	3050B	6010B	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	3050B	6020	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	3060A	7199	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	3546	1625C	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	3550B	8015B	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	3550B	8015M	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	3550B	8270C	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	3550B	8270C SIM	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	5035	8015M	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	5035	8260B	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	5035	8260B SIM	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	8330	8330A	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	METHOD	300.0	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	METHOD	314.0	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	METHOD	7471A	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	METHOD	8015B	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	METHOD	8015M	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	METHOD	8315A	III
21-Jun-2011	SL-121-SA5DN-SB-8.0-9.0	6323485	N	METHOD	9012B	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	3050B	6010B	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	3050B	6020	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	3060A	7199	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	3546	1625C	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	3550B	8015B	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	3550B	8015M	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	3550B	8082	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	3550B	8270C	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	3550B	8270C SIM	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	5035	8015M	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	5035	8260B	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	5035	8260B SIM	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	8330	8330A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	METHOD	300.0	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	METHOD	314.0	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	METHOD	7471A	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	METHOD	8015B	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	METHOD	8015M	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	METHOD	8315A	III
21-Jun-2011	SL-125-SA5DN-SB-4.0-5.0	6323486	N	METHOD	9012B	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	3050B	6010B	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	3050B	6020	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	3060A	7199	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	3546	1625C	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	3550B	8015B	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	3550B	8015M	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	3550B	8082	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	3550B	8270C	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	3550B	8270C SIM	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	5035	8015M	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	5035	8260B	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	5035	8260B SIM	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	8330	8330A	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	METHOD	300.0	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	METHOD	314.0	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	METHOD	7471A	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	METHOD	8015B	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	METHOD	8015M	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	METHOD	8315A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0	6323487	N	METHOD	9012B	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0D	P323487D271304B	DUP	METHOD	314.0	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0D	P323487D272018A	DUP	3060A	7199	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0D	P323487D272346B	DUP	METHOD	300.0	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0M	P323487R270001B	MS	METHOD	300.0	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0M	P323487R270905B	MS	METHOD	314.0	III
21-Jun-2011	SL-125-SA5DN-SB-9.0-10.0M	P323487R271941A	MS	3060A	7199	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	3050B	6010B	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	3050B	6020	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	3060A	7199	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	3546	1625C	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	3550B	8015B	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	3550B	8015M	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	3550B	8082	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	3550B	8270C	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	3550B	8270C SIM	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	5035	8015M	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	5035	8260B	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	5035	8260B SIM	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	8330	8330A	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	METHOD	300.0	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	METHOD	314.0	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	METHOD	7471A	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	METHOD	8015B	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	METHOD	8015M	III
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	METHOD	8315A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jun-2011	SL-098-SA5DN-SB-4.0-5.0	6323479	N	METHOD	9012B	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	3050B	6010B	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	3050B	6020	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	3060A	7199	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	3546	1625C	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	3550B	8015B	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	3550B	8015M	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	3550B	8082	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	3550B	8270C	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	3550B	8270C SIM	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	5035	8015M	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	5035	8260B	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	5035	8260B SIM	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	8330	8330A	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	METHOD	300.0	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	METHOD	314.0	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	METHOD	7471A	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	METHOD	8015B	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	METHOD	8015M	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	METHOD	8315A	III
21-Jun-2011	SL-098-SA5DN-SB-7.0-8.0	6323480	N	METHOD	9012B	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	3050B	6010B	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	3050B	6020	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	3060A	7199	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	3546	1625C	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	3550B	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	3550B	8015M	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	3550B	8082	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	3550B	8270C	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	3550B	8270C SIM	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	5035	8015M	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	5035	8260B	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	5035	8260B SIM	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	8330	8330A	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	METHOD	300.0	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	METHOD	314.0	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	METHOD	7471A	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	METHOD	8015B	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	METHOD	8015M	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	METHOD	8315A	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0	6323477	N	METHOD	9012B	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0DU	P323477D270146A	DUP	METHOD	314.0	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0DU	P323477D272021A	DUP	METHOD	300.0	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0MS	P323477R262355	MS	3546	1625C	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0MS	P323477R270210A	MS	METHOD	314.0	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0MS	P323477R272035A	MS	METHOD	300.0	III
21-Jun-2011	SL-097-SA5DN-SB-4.0-5.0MS	P323477R321848A	MS	3550B	8015B	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	3050B	6010B	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	3050B	6020	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	3060A	7199	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	3546	1625C	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	3550B	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	3550B	8015M	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	3550B	8082	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	3550B	8270C	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	3550B	8270C SIM	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	5035	8015M	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	5035	8260B	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	5035	8260B SIM	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	8330	8330A	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	METHOD	300.0	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	METHOD	314.0	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	METHOD	7471A	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	METHOD	8015B	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	METHOD	8015M	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	METHOD	8315A	III
21-Jun-2011	SL-097-SA5DN-SB-8.5-9.5	6323478	N	METHOD	9012B	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	3050B	6010B	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	3050B	6020	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	3060A	7199	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	3546	1625C	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	3550B	8015B	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	3550B	8015M	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	3550B	8082	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	3550B	8270C	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	3550B	8270C SIM	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	5035	8015M	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	5035	8260B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	5035	8260B SIM	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	8330	8330A	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	METHOD	300.0	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	METHOD	314.0	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	METHOD	6850	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	METHOD	7471A	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	METHOD	8015B	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	METHOD	8015M	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	METHOD	8315A	III
21-Jun-2011	SL-099-SA5DN-SB-4.0-5.0	6323481	N	METHOD	9012B	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	3050B	6010B	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	3050B	6020	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	3060A	7199	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	3546	1625C	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	3550B	8015B	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	3550B	8015M	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	3550B	8082	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	3550B	8270C	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	3550B	8270C SIM	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	5035	8015M	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	5035	8260B	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	5035	8260B SIM	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	8330	8330A	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	METHOD	300.0	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	METHOD	314.0	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	METHOD	7471A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	METHOD	8015B	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	METHOD	8015M	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	METHOD	8315A	III
21-Jun-2011	SL-113-SA5DN-SB-4.0-5.0	6323482	N	METHOD	9012B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-097-SA5DN-SB-4.0-5.0 **Collected:** 6/21/2011 11:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-097-SA5DN-SB-8.5-9.5 **Collected:** 6/21/2011 12:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.8		0.90	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.90	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5DN-SB-4.0-5.0 **Collected:** 6/21/2011 11:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.3		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-098-SA5DN-SB-7.0-8.0 **Collected:** 6/21/2011 11:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	1.2	J	0.94	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-099-SA5DN-SB-4.0-5.0 **Collected:** 6/21/2011 2:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.90	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.6	J	0.90	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA5DN-SB-4.0-5.0 **Collected:** 6/21/2011 3:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.8		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-120-SA5DN-SB-4.0-5.0 **Collected:** 6/21/2011 8:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.1		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-125-SA5DN-SB-9.0-10.0 *Collected:* 6/21/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.8		0.85	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3540		13.1	MDL	58.0	PQL	mg/Kg	J	Q
TIN	2.89	J	0.371	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	3.61	J	0.534	MDL	5.80	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5DN-SB-8.5-9.5 *Collected:* 6/21/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2900		12.7	MDL	56.1	PQL	mg/Kg	J	Q
TIN	2.51	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	3.17	J	0.516	MDL	5.61	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-098-SA5DN-SB-4.0-5.0 **Collected:** 6/21/2011 11:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4020		12.9	MDL	57.3	PQL	mg/Kg	J	Q
TIN	3.04	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.16	J	0.527	MDL	5.73	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5DN-SB-7.0-8.0 **Collected:** 6/21/2011 11:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3160		13.1	MDL	58.0	PQL	mg/Kg	J	Q
TIN	2.71	J	0.371	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	3.87	J	0.533	MDL	5.80	PQL	mg/Kg	J	Z

Sample ID: SL-099-SA5DN-SB-4.0-5.0 **Collected:** 6/21/2011 2:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3430		12.4	MDL	54.7	PQL	mg/Kg	J	Q
TIN	2.71	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.98	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA5DN-SB-4.0-5.0 **Collected:** 6/21/2011 3:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3280		13.1	MDL	57.9	PQL	mg/Kg	J	Q
TIN	2.78	J	0.370	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	3.50	J	0.532	MDL	5.79	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5DN-SB-4.0-5.0 **Collected:** 6/21/2011 8:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3730		12.6	MDL	55.8	PQL	mg/Kg	J	Q
TIN	2.96	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.16	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3380		12.3	MDL	54.5	PQL	mg/Kg	J	Q
TIN	2.97	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.08	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2490		11.8	MDL	52.1	PQL	mg/Kg	J	Q
TIN	2.85	J	0.333	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.63	J	0.479	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3060		12.8	MDL	56.7	PQL	mg/Kg	J	Q
TIN	2.67	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.03	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5DN-SB-9.0-10.0 *Collected:* 6/21/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2450		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	2.67	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	3.00	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.213	J	0.0842	MDL	0.228	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 Laboratory: LL

EDD Filename: DE185_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0660	MDL	0.455	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.597		0.0569	MDL	0.114	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	163		0.121	MDL	0.455	PQL	mg/Kg	J	E, E, A

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	10.4		0.0911	MDL	0.455	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.20		0.0182	MDL	0.114	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.452		0.0501	MDL	0.114	PQL	mg/Kg	J	Q, E
CHROMIUM	40.2		0.137	MDL	0.455	PQL	mg/Kg	J	E, E
COBALT	15.2		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E, E, A
COPPER	21.8		0.0911	MDL	0.455	PQL	mg/Kg	J	Q, Q, E, E
LEAD	13.7		0.0116	MDL	0.228	PQL	mg/Kg	J	E, E, A
NICKEL	36.0		0.114	MDL	0.455	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0680	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.481		0.0341	MDL	0.114	PQL	mg/Kg	J	Q, Q, E
VANADIUM	66.4		0.0250	MDL	0.114	PQL	mg/Kg	J	E, E
ZINC	101		0.637	MDL	3.41	PQL	mg/Kg	J	E, E

Sample ID: SL-097-SA5DN-SB-8.5-9.5 *Collected:* 6/21/2011 12:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0806	MDL	0.218	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-097-SA5DN-SB-8.5-9.5 ***Collected:*** 6/21/2011 12:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.523		0.0545	MDL	0.109	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-097-SA5DN-SB-8.5-9.5 ***Collected:*** 6/21/2011 12:05:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.5		0.116	MDL	0.436	PQL	mg/Kg	J	E, E, A

Sample ID: SL-097-SA5DN-SB-8.5-9.5 ***Collected:*** 6/21/2011 12:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	6.54		0.0872	MDL	0.436	PQL	mg/Kg	J	E, E, A
BERYLLIUM	0.665		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.179		0.0479	MDL	0.109	PQL	mg/Kg	J	Q, E
CHROMIUM	21.4		0.131	MDL	0.436	PQL	mg/Kg	J	E, E
COBALT	6.29		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, E, E, A
COPPER	11.4		0.0872	MDL	0.436	PQL	mg/Kg	J	Q, Q, E, E
LEAD	6.51		0.0111	MDL	0.218	PQL	mg/Kg	J	E, E, A
NICKEL	17.6		0.109	MDL	0.436	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0586	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.313		0.0327	MDL	0.109	PQL	mg/Kg	J	Q, Q, E
VANADIUM	40.9		0.0240	MDL	0.109	PQL	mg/Kg	J	E, E
ZINC	48.2		0.610	MDL	3.27	PQL	mg/Kg	J	E, E

Sample ID: SL-098-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 11:05:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.39		0.0831	MDL	0.225	PQL	mg/Kg	J	Q

Sample ID: SL-098-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 11:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.192	J	0.0652	MDL	0.449	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-098-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	5.90		0.0562	MDL	0.112	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-098-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	143		0.119	MDL	0.449	PQL	mg/Kg	J	E, E, A

Sample ID: SL-098-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	15.3		0.0899	MDL	0.449	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.16		0.0180	MDL	0.112	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	1.26		0.0494	MDL	0.112	PQL	mg/Kg	J	Q, E
CHROMIUM	80.0		0.135	MDL	0.449	PQL	mg/Kg	J	E, E
COBALT	17.2		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E, E, A
COPPER	121		0.0899	MDL	0.449	PQL	mg/Kg	J	Q, Q, E, E
LEAD	47.6		0.0115	MDL	0.225	PQL	mg/Kg	J	E, E, A
NICKEL	60.0		0.112	MDL	0.449	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.139		0.0160	MDL	0.112	PQL	mg/Kg	J	Q, E
THALLIUM	0.469		0.0337	MDL	0.112	PQL	mg/Kg	J	Q, Q, E
VANADIUM	69.0		0.0247	MDL	0.112	PQL	mg/Kg	J	E, E
ZINC	153		0.629	MDL	3.37	PQL	mg/Kg	J	E, E

Sample ID: SL-098-SA5DN-SB-7.0-8.0 *Collected:* 6/21/2011 11:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.187	J	0.0833	MDL	0.225	PQL	mg/Kg	J	Z, Q

Sample ID: SL-098-SA5DN-SB-7.0-8.0 *Collected:* 6/21/2011 11:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0704	J	0.0653	MDL	0.450	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-098-SA5DN-SB-7.0-8.0 ***Collected:*** 6/21/2011 11:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.696		0.0563	MDL	0.113	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-098-SA5DN-SB-7.0-8.0 ***Collected:*** 6/21/2011 11:15:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	154		0.119	MDL	0.450	PQL	mg/Kg	J	E, E, A

Sample ID: SL-098-SA5DN-SB-7.0-8.0 ***Collected:*** 6/21/2011 11:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	11.8		0.0901	MDL	0.450	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.06		0.0180	MDL	0.113	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.477		0.0495	MDL	0.113	PQL	mg/Kg	J	Q, E
CHROMIUM	36.9		0.135	MDL	0.450	PQL	mg/Kg	J	E, E
COBALT	13.2		0.0225	MDL	0.113	PQL	mg/Kg	J	Q, E, E, A
COPPER	23.3		0.0901	MDL	0.450	PQL	mg/Kg	J	Q, Q, E, E
LEAD	11.0		0.0115	MDL	0.225	PQL	mg/Kg	J	E, E, A
NICKEL	33.9		0.113	MDL	0.450	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.100	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.460		0.0338	MDL	0.113	PQL	mg/Kg	J	Q, Q, E
VANADIUM	66.0		0.0248	MDL	0.113	PQL	mg/Kg	J	E, E
ZINC	87.9		0.631	MDL	3.38	PQL	mg/Kg	J	E, E

Sample ID: SL-099-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 2:25:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.173	J	0.0801	MDL	0.217	PQL	mg/Kg	J	Z, Q

Sample ID: SL-099-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 2:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0993	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE185 Laboratory: LL

EDD Filename: DE185_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-099-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 2:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.727		0.0541	MDL	0.108	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-099-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 2:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	160		0.115	MDL	0.433	PQL	mg/Kg	J	E, E, A

Sample ID: SL-099-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 2:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.61		0.0866	MDL	0.433	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.17		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.350		0.0476	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	39.0		0.130	MDL	0.433	PQL	mg/Kg	J	E, E
COBALT	13.6		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E, E, A
COPPER	22.0		0.0866	MDL	0.433	PQL	mg/Kg	J	Q, Q, E, E
LEAD	13.1		0.0110	MDL	0.217	PQL	mg/Kg	J	E, E, A
NICKEL	32.9		0.108	MDL	0.433	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0887	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.431		0.0325	MDL	0.108	PQL	mg/Kg	J	Q, Q, E
VANADIUM	63.5		0.0238	MDL	0.108	PQL	mg/Kg	J	E, E
ZINC	99.0		0.606	MDL	3.25	PQL	mg/Kg	J	E, E

Sample ID: SL-113-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 3:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.218	J	0.0882	MDL	0.238	PQL	mg/Kg	J	Z, Q

Sample ID: SL-113-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 3:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0691	MDL	0.477	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-113-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 3:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.555		0.0596	MDL	0.119	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-113-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 3:15:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	175		0.126	MDL	0.477	PQL	mg/Kg	J	E, E, A

Sample ID: SL-113-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	12.3		0.0954	MDL	0.477	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.31		0.0191	MDL	0.119	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.468		0.0524	MDL	0.119	PQL	mg/Kg	J	Q, E
CHROMIUM	46.8		0.143	MDL	0.477	PQL	mg/Kg	J	E, E
COBALT	18.9		0.0238	MDL	0.119	PQL	mg/Kg	J	Q, E, E, A
COPPER	23.9		0.0954	MDL	0.477	PQL	mg/Kg	J	Q, Q, E, E
LEAD	14.5		0.0122	MDL	0.238	PQL	mg/Kg	J	E, E, A
NICKEL	38.9		0.119	MDL	0.477	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0989	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.486		0.0358	MDL	0.119	PQL	mg/Kg	J	Q, Q, E
VANADIUM	81.2		0.0262	MDL	0.119	PQL	mg/Kg	J	E, E
ZINC	105		0.667	MDL	3.58	PQL	mg/Kg	J	E, E

Sample ID: SL-120-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 8:50:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.202	J	0.0834	MDL	0.225	PQL	mg/Kg	J	Z, Q

Sample ID: SL-120-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 8:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0901	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-120-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 8:50:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.569		0.0564	MDL	0.113	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-120-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 8:50:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	198		0.120	MDL	0.451	PQL	mg/Kg	J	E, E, A

Sample ID: SL-120-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 8:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.28		0.0902	MDL	0.451	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.22		0.0180	MDL	0.113	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.251		0.0496	MDL	0.113	PQL	mg/Kg	J	Q, E
CHROMIUM	37.0		0.135	MDL	0.451	PQL	mg/Kg	J	E, E
COBALT	11.1		0.0225	MDL	0.113	PQL	mg/Kg	J	Q, E, E, A
COPPER	19.6		0.0902	MDL	0.451	PQL	mg/Kg	J	Q, Q, E, E
LEAD	11.4		0.0115	MDL	0.225	PQL	mg/Kg	J	E, E, A
NICKEL	28.2		0.113	MDL	0.451	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0798	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.368		0.0338	MDL	0.113	PQL	mg/Kg	J	Q, Q, E
VANADIUM	65.0		0.0248	MDL	0.113	PQL	mg/Kg	J	E, E
ZINC	84.2		0.631	MDL	3.38	PQL	mg/Kg	J	E, E

Sample ID: SL-121-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 9:30:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.302		0.0798	MDL	0.216	PQL	mg/Kg	J	Q

Sample ID: SL-121-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 9:30:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0626	MDL	0.431	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.740		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* REA4 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	248		0.286	MDL	1.08	PQL	mg/Kg	J	E, E, A

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	11.4		0.0863	MDL	0.431	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.44		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.390		0.0475	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	51.9		0.129	MDL	0.431	PQL	mg/Kg	J	E, E
COBALT	15.6		0.0216	MDL	0.108	PQL	mg/Kg	J	Q, E, E, A
COPPER	24.9		0.0863	MDL	0.431	PQL	mg/Kg	J	Q, Q, E, E
LEAD	15.9		0.0110	MDL	0.216	PQL	mg/Kg	J	E, E, A
NICKEL	43.5		0.108	MDL	0.431	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.101	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.518		0.0324	MDL	0.108	PQL	mg/Kg	J	Q, Q, E
VANADIUM	86.4		0.0237	MDL	0.108	PQL	mg/Kg	J	E, E
ZINC	116		0.604	MDL	3.24	PQL	mg/Kg	J	E, E

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.175	J	0.0786	MDL	0.213	PQL	mg/Kg	J	Z, Q

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0822	J	0.0616	MDL	0.425	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-121-SA5DN-SB-8.0-9.0 ***Collected:*** 6/21/2011 9:40:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.672		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-121-SA5DN-SB-8.0-9.0 ***Collected:*** 6/21/2011 9:40:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.5		0.113	MDL	0.425	PQL	mg/Kg	J	E, E, A

Sample ID: SL-121-SA5DN-SB-8.0-9.0 ***Collected:*** 6/21/2011 9:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	10.2		0.0850	MDL	0.425	PQL	mg/Kg	J	E, E, A
BERYLLIUM	0.664		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.227		0.0468	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	26.3		0.128	MDL	0.425	PQL	mg/Kg	J	E, E
COBALT	9.75		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E, E, A
COPPER	15.4		0.0850	MDL	0.425	PQL	mg/Kg	J	Q, Q, E, E
LEAD	7.09		0.0108	MDL	0.213	PQL	mg/Kg	J	E, E, A
NICKEL	24.2		0.106	MDL	0.425	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0249	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.334		0.0319	MDL	0.106	PQL	mg/Kg	J	Q, Q, E
VANADIUM	41.2		0.0234	MDL	0.106	PQL	mg/Kg	J	E, E
ZINC	74.0		0.595	MDL	3.19	PQL	mg/Kg	J	E, E

Sample ID: SL-125-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 10:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0815	MDL	0.220	PQL	mg/Kg	J	Z, Q

Sample ID: SL-125-SA5DN-SB-4.0-5.0 ***Collected:*** 6/21/2011 10:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0733	J	0.0639	MDL	0.441	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.417		0.0551	MDL	0.110	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	177		0.117	MDL	0.441	PQL	mg/Kg	J	E, E, A

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.82		0.0881	MDL	0.441	PQL	mg/Kg	J	E, E, A
BERYLLIUM	0.997		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.444		0.0485	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	33.7		0.132	MDL	0.441	PQL	mg/Kg	J	E, E
COBALT	12.7		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E, E, A
COPPER	19.4		0.0881	MDL	0.441	PQL	mg/Kg	J	Q, Q, E, E
LEAD	10.9		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A
NICKEL	31.2		0.110	MDL	0.441	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0658	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.418		0.0330	MDL	0.110	PQL	mg/Kg	J	Q, Q, E
VANADIUM	60.6		0.0242	MDL	0.110	PQL	mg/Kg	J	E, E
ZINC	86.5		0.617	MDL	3.30	PQL	mg/Kg	J	E, E

Sample ID: SL-125-SA5DN-SB-9.0-10.0 *Collected:* 6/21/2011 10:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.146	J	0.0781	MDL	0.211	PQL	mg/Kg	J	Z, Q

Sample ID: SL-125-SA5DN-SB-9.0-10.0 *Collected:* 6/21/2011 10:25:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.550		0.0528	MDL	0.106	PQL	mg/Kg	J	Q, E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-125-SA5DN-SB-9.0-10.0 *Collected:* 6/21/2011 10:25:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.112	MDL	0.422	PQL	mg/Kg	J	E, E, A

Sample ID: SL-125-SA5DN-SB-9.0-10.0 *Collected:* 6/21/2011 10:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.98		0.0844	MDL	0.422	PQL	mg/Kg	J	E, E, A
BERYLLIUM	0.851		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.195		0.0464	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	23.2		0.127	MDL	0.422	PQL	mg/Kg	J	E, E
COBALT	8.89		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, E, E, A
COPPER	13.2		0.0844	MDL	0.422	PQL	mg/Kg	J	Q, Q, E, E
LEAD	8.40		0.0108	MDL	0.211	PQL	mg/Kg	J	E, E, A
NICKEL	17.4		0.106	MDL	0.422	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0554	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.335		0.0317	MDL	0.106	PQL	mg/Kg	J	Q, Q, E
VANADIUM	45.2		0.0232	MDL	0.106	PQL	mg/Kg	J	E, E
ZINC	63.5		0.591	MDL	3.17	PQL	mg/Kg	J	E, E

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-097-SA5DN-SB-8.5-9.5 *Collected:* 6/21/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.1	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-098-SA5DN-SB-7.0-8.0 *Collected:* 6/21/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-099-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5DN-SB-9.0-10.0 *Collected:* 6/21/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

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

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

Sample ID: SL-097-SA5DN-SB-8.5-9.5 *Collected:* 6/21/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0129	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.108	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-098-SA5DN-SB-7.0-8.0 *Collected:* 6/21/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0216	J	0.0079	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-099-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0398	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0146	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0096	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0190	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0211	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0142	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5DN-SB-9.0-10.0 *Collected:* 6/21/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0082	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix:** SO

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	20.9	J	19.4	MDL	38.8	PQL	ng/Kg	J	Z

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	18.6	J	18.2	MDL	36.4	PQL	ng/Kg	J	Z

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	19.1	J	17.4	MDL	34.8	PQL	ng/Kg	J	Z

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	32.9	J	19.1	MDL	38.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 Laboratory: LL

EDD Filename: DE185_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-098-SA5DN-SB-7.0-8.0 *Collected:* 6/21/2011 11:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.3	J	0.47	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-099-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 2:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.70	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-113-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 3:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.1	J	0.48	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-120-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 8:50:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.51	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.84	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.1	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.3	J	0.85	MDL	2.5	PQL	mg/Kg	J	Z

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.71	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-098-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	4.1		1.2	MDL	3.9	PQL	ug/Kg	J	L

Sample ID: SL-098-SA5DN-SB-7.0-8.0 *Collected:* 6/21/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.57	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.47	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	22	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-097-SA5DN-SB-8.5-9.5 *Collected:* 6/21/2011 12:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-098-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	49	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-098-SA5DN-SB-7.0-8.0 *Collected:* 6/21/2011 11:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	19	MDL	390	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-099-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 2:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SL-113-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 3:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	20	MDL	400	PQL	ug/Kg	J	Z

Sample ID: SL-120-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 8:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	18	MDL	370	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: SL-098-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.79	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-113-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 3:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.1	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.9	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.9	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.7	U	1.7	MDL	4.1	PQL	mg/Kg	UJ	Q

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.0	J	6.9	MDL	8.3	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.2	J	0.25	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-097-SA5DN-SB-8.5-9.5 *Collected:* 6/21/2011 12:05:00 *Analysis Type:* RES *Dilution:* 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.2		6.8	MDL	8.1	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.9	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-098-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:05:00 *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.4		7.0	MDL	8.3	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.5	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-098-SA5DN-SB-7.0-8.0 *Collected:* 6/21/2011 11:15:00 *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.5		6.7	MDL	8.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.8	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-099-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 2:25:00 *Analysis Type:* RES *Dilution:* 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.2	J	0.24	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory:** LL

EDD Filename: DE185_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-113-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 3:15:00 *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.9		6.9	MDL	8.2	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.5	J	0.25	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-120-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 8:50:00 *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.3	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.5		6.8	MDL	8.2	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.9	J	0.24	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* RES *Dilution:* 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.4		6.8	MDL	8.2	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.1	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.8	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-125-SA5DN-SB-9.0-10.0 *Collected:* 6/21/2011 10:25:00 *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	8.2		6.6	MDL	7.9	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.2	J	0.24	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE185

Method Blank Outlier Report

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17908AB221624	6/30/2011 4:24:00 PM	MAGNESIUM MANGANESE PHOSPHORUS TIN	1.16 mg/Kg 0.135 mg/Kg 1.38 mg/Kg 1.57 mg/Kg	SL-097-SA5DN-SB-4.0-5.0 SL-097-SA5DN-SB-8.5-9.5 SL-098-SA5DN-SB-4.0-5.0 SL-098-SA5DN-SB-7.0-8.0 SL-099-SA5DN-SB-4.0-5.0 SL-113-SA5DN-SB-4.0-5.0 SL-120-SA5DN-SB-4.0-5.0 SL-121-SA5DN-SB-4.0-5.0 SL-121-SA5DN-SB-8.0-9.0 SL-125-SA5DN-SB-4.0-5.0 SL-125-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-097-SA5DN-SB-4.0-5.0(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-098-SA5DN-SB-4.0-5.0(RES)	TIN	3.04 mg/Kg	3.04U mg/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17426AB220722A	6/24/2011 7:22:00 AM	COPPER	0.308 mg/Kg	SL-097-SA5DN-SB-4.0-5.0 SL-097-SA5DN-SB-8.5-9.5 SL-098-SA5DN-SB-4.0-5.0 SL-098-SA5DN-SB-7.0-8.0 SL-099-SA5DN-SB-4.0-5.0 SL-113-SA5DN-SB-4.0-5.0 SL-120-SA5DN-SB-4.0-5.0 SL-121-SA5DN-SB-4.0-5.0 SL-121-SA5DN-SB-8.0-9.0 SL-125-SA5DN-SB-4.0-5.0 SL-125-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB96B211423A	6/23/2011 2:23:00 PM	ACETONE METHYLENE CHLORIDE	11 ug/Kg 2.0 ug/Kg	SL-097-SA5DN-SB-4.0-5.0 SL-097-SA5DN-SB-8.5-9.5 SL-098-SA5DN-SB-4.0-5.0 SL-098-SA5DN-SB-7.0-8.0 SL-099-SA5DN-SB-4.0-5.0 SL-113-SA5DN-SB-4.0-5.0 SL-120-SA5DN-SB-4.0-5.0 SL-121-SA5DN-SB-4.0-5.0 SL-121-SA5DN-SB-8.0-9.0 SL-125-SA5DN-SB-4.0-5.0 SL-125-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-097-SA5DN-SB-4.0-5.0(RES)	ACETONE	8.0 ug/Kg	8.3U ug/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	4.1U ug/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	ACETONE	8.2 ug/Kg	8.2U ug/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	METHYLENE CHLORIDE	1.9 ug/Kg	4.1U ug/Kg
SL-098-SA5DN-SB-4.0-5.0(RES)	ACETONE	8.4 ug/Kg	8.4U ug/Kg
SL-098-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.2U ug/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	ACETONE	8.5 ug/Kg	8.5U ug/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	4.0U ug/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	4.0U ug/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	ACETONE	8.9 ug/Kg	8.9U ug/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.5 ug/Kg	4.1U ug/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.3 ug/Kg	4.2U ug/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	ACETONE	8.5 ug/Kg	8.5U ug/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.9 ug/Kg	4.1U ug/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	ACETONE	8.4 ug/Kg	8.4U ug/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	METHYLENE CHLORIDE	2.1 ug/Kg	4.1U ug/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	4.1U ug/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	ACETONE	8.2 ug/Kg	8.2U ug/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	2.2 ug/Kg	3.9U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-097-SA5DN-SB-4.0-5.0MSD (SL-097-SA5DN-SB-4.0-5.0)	m-Terphenyl	-	71	75.00-125.00	-	m-Terphenyl	J (all detects) UJ (all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-097-SA5DN-SB-4.0-5.0MS (SL-097-SA5DN-SB-4.0-5.0 SL-097-SA5DN-SB-8.5-9.5 SL-098-SA5DN-SB-4.0-5.0 SL-098-SA5DN-SB-7.0-8.0 SL-099-SA5DN-SB-4.0-5.0 SL-113-SA5DN-SB-4.0-5.0 SL-120-SA5DN-SB-4.0-5.0 SL-121-SA5DN-SB-4.0-5.0 SL-121-SA5DN-SB-8.0-9.0 SL-125-SA5DN-SB-4.0-5.0)	FLUORIDE	56	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-125-SA5DN-SB-9.0-10.0MS (SL-125-SA5DN-SB-9.0-10.0)	FLUORIDE	62	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-097-SA5DN-SB-4.0-5.0DUP	FLUORIDE	71	20.00	
(SL-097-SA5DN-SB-4.0-5.0	Nitrate-NO3	33	20.00	
SL -097-SA5DN-SB-8.5-9.5				
SL -098-SA5DN-SB-4.0-5.0				
SL -098-SA5DN-SB-7.0-8.0				No Qual,
SL -099-SA5DN-SB-4.0-5.0				OK by Difference
SL -113-SA5DN-SB-4.0-5.0				
SL -120-SA5DN-SB-4.0-5.0				
SL -121-SA5DN-SB-4.0-5.0				
SL -121-SA5DN-SB-8.0-9.0				
SL -125-SA5DN-SB-4.0-5.0)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-125-SA5DN-SB-9.0-10.0DUP	HEXAVALENT CHROMIUM	55	20.00	
(SL-097-SA5DN-SB-4.0-5.0				
SL -097-SA5DN-SB-8.5-9.5				
SL -098-SA5DN-SB-4.0-5.0				
SL -098-SA5DN-SB-7.0-8.0				
SL -099-SA5DN-SB-4.0-5.0				No Qual,
SL -113-SA5DN-SB-4.0-5.0				OK by Difference
SL -120-SA5DN-SB-4.0-5.0				
SL -121-SA5DN-SB-4.0-5.0				
SL -121-SA5DN-SB-8.0-9.0				
SL -125-SA5DN-SB-4.0-5.0				
SL -125-SA5DN-SB-9.0-10.0)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8082**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
P11743AQ241637A P11743AY241619A (SL-097-SA5DN -SB-4.0-5.0 SL -097-SA5DN -SB-8.5-9.5 SL -098-SA5DN -SB-4.0-5.0 SL -098-SA5DN -SB-7.0-8.0 SL -099-SA5DN -SB-4.0-5.0 SL -113-SA5DN -SB-4.0-5.0 SL -120-SA5DN -SB-4.0-5.0 SL -121-SA5DN -SB-8.0-9.0 SL -125-SA5DN -SB-4.0-5.0 SL -125-SA5DN -SB-9.0-10.0)	Aroclor 5442	119	111	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5DN-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	20.9	38.8	PQL	ng/Kg	J (all detects)
SL-121-SA5DN-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	18.6	36.4	PQL	ng/Kg	J (all detects)
SL-121-SA5DN-SB-8.0-9.0	N-NITROSODIMETHYLAMINE	J	19.1	34.8	PQL	ng/Kg	J (all detects)
SL-125-SA5DN-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	32.9	38.2	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5DN-SB-8.5-9.5	Nitrate-NO3	J	1.1	1.7	PQL	mg/Kg	J (all detects)
SL-098-SA5DN-SB-7.0-8.0	Nitrate-NO3	J	1.2	1.8	PQL	mg/Kg	J (all detects)
SL-099-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.6	1.7	PQL	mg/Kg	J (all detects)
SL-125-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5DN-SB-4.0-5.0	TIN Zirconium	J J	2.89 3.61	11.6 5.80	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-097-SA5DN-SB-8.5-9.5	TIN Zirconium	J J	2.51 3.17	11.2 5.61	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-098-SA5DN-SB-4.0-5.0	TIN Zirconium	J J	3.04 4.16	11.5 5.73	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-098-SA5DN-SB-7.0-8.0	TIN Zirconium	J J	2.71 3.87	11.6 5.80	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-099-SA5DN-SB-4.0-5.0	TIN Zirconium	J J	2.71 2.98	10.9 5.47	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-113-SA5DN-SB-4.0-5.0	TIN Zirconium	J J	2.78 3.50	11.6 5.79	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-120-SA5DN-SB-4.0-5.0	TIN Zirconium	J J	2.96 2.16	11.2 5.58	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-121-SA5DN-SB-4.0-5.0	TIN Zirconium	J J	2.97 4.08	10.9 5.45	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-121-SA5DN-SB-8.0-9.0	TIN Zirconium	J J	2.85 2.63	10.4 5.21	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-125-SA5DN-SB-4.0-5.0	TIN Zirconium	J J	2.67 2.03	11.3 5.67	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-125-SA5DN-SB-9.0-10.0	TIN Zirconium	J J	2.67 3.00	10.4 5.18	PQL PQL	mg/Kg mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.213	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.110	0.455	PQL	mg/Kg	
	SILVER	J	0.0680	0.114	PQL	mg/Kg	
SL-097-SA5DN-SB-8.5-9.5	ANTIMONY	J	0.160	0.218	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0586	0.109	PQL	mg/Kg	
SL-098-SA5DN-SB-4.0-5.0	SELENIUM	J	0.192	0.449	PQL	mg/Kg	J (all detects)
SL-098-SA5DN-SB-7.0-8.0	ANTIMONY	J	0.187	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0704	0.450	PQL	mg/Kg	
	SILVER	J	0.100	0.113	PQL	mg/Kg	
SL-099-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.173	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0993	0.433	PQL	mg/Kg	
	SILVER	J	0.0887	0.108	PQL	mg/Kg	
SL-113-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.218	0.238	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.477	PQL	mg/Kg	
	SILVER	J	0.0989	0.119	PQL	mg/Kg	
SL-120-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.202	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0901	0.451	PQL	mg/Kg	
	SILVER	J	0.0798	0.113	PQL	mg/Kg	
SL-121-SA5DN-SB-4.0-5.0	SELENIUM	J	0.119	0.431	PQL	mg/Kg	J (all detects)
	SILVER	J	0.101	0.108	PQL	mg/Kg	
SL-121-SA5DN-SB-8.0-9.0	ANTIMONY	J	0.175	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0822	0.425	PQL	mg/Kg	
	SILVER	J	0.0249	0.106	PQL	mg/Kg	
SL-125-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.160	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0733	0.441	PQL	mg/Kg	
	SILVER	J	0.0658	0.110	PQL	mg/Kg	
SL-125-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.146	0.211	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0554	0.106	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.35	1.2	PQL	mg/Kg	J (all detects)
SL-097-SA5DN-SB-8.5-9.5	HEXAVALENT CHROMIUM	J	0.35	1.1	PQL	mg/Kg	J (all detects)
SL-098-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	1.1	1.2	PQL	mg/Kg	J (all detects)
SL-098-SA5DN-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.40	1.2	PQL	mg/Kg	J (all detects)
SL-099-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-113-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.43	1.2	PQL	mg/Kg	J (all detects)
SL-120-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.60	1.1	PQL	mg/Kg	J (all detects)
SL-121-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.45	1.1	PQL	mg/Kg	J (all detects)
SL-121-SA5DN-SB-8.0-9.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)
SL-125-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-125-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5DN-SB-8.5-9.5	MERCURY	J	0.0129	0.106	PQL	mg/Kg	J (all detects)
SL-098-SA5DN-SB-4.0-5.0	MERCURY	J	0.108	0.111	PQL	mg/Kg	J (all detects)
SL-098-SA5DN-SB-7.0-8.0	MERCURY	J	0.0216	0.113	PQL	mg/Kg	J (all detects)
SL-099-SA5DN-SB-4.0-5.0	MERCURY	J	0.0398	0.111	PQL	mg/Kg	J (all detects)
SL-113-SA5DN-SB-4.0-5.0	MERCURY	J	0.0146	0.115	PQL	mg/Kg	J (all detects)
SL-120-SA5DN-SB-4.0-5.0	MERCURY	J	0.0096	0.107	PQL	mg/Kg	J (all detects)
SL-121-SA5DN-SB-4.0-5.0	MERCURY	J	0.0190	0.104	PQL	mg/Kg	J (all detects)
SL-121-SA5DN-SB-8.0-9.0	MERCURY	J	0.0211	0.102	PQL	mg/Kg	J (all detects)
SL-125-SA5DN-SB-4.0-5.0	MERCURY	J	0.0142	0.109	PQL	mg/Kg	J (all detects)
SL-125-SA5DN-SB-9.0-10.0	MERCURY	J	0.0082	0.104	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA5DN-SB-7.0-8.0	EFH (C30-C40)	J	1.3	1.4	PQL	mg/Kg	J (all detects)
SL-099-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.70	1.4	PQL	mg/Kg	J (all detects)
SL-113-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	1.1	1.4	PQL	mg/Kg	J (all detects)
SL-120-SA5DN-SB-4.0-5.0	EFH (C21-C30) EFH (C30-C40)	J J	0.51 0.84	1.4 1.4	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-121-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	1.1	1.3	PQL	mg/Kg	J (all detects)
SL-121-SA5DN-SB-8.0-9.0	EFH (C15-C20)	J	1.3	2.5	PQL	mg/Kg	J (all detects)
SL-125-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.71	1.4	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA5DN-SB-7.0-8.0	AROCLOR 1254	J	0.57	2.0	PQL	ug/Kg	J (all detects)
SL-121-SA5DN-SB-8.0-9.0	AROCLOR 1260	J	0.47	1.8	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5DN-SB-4.0-5.0	ACETONE METHYLENE CHLORIDE TOLUENE	J J J	8.0 2.2 0.09	8.3 4.1 4.1	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE185 **Laboratory: LL**

EDD Filename: DE185_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5DN-SB-8.5-9.5	METHYLENE CHLORIDE TOLUENE	J J	1.9 0.08	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-098-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.5	4.2	PQL	ug/Kg	J (all detects)
SL-098-SA5DN-SB-7.0-8.0	METHYLENE CHLORIDE	J	1.8	4.0	PQL	ug/Kg	J (all detects)
SL-099-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	2.2	4.0	PQL	ug/Kg	J (all detects)
SL-113-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	2.5 0.09	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-120-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	2.3	4.2	PQL	ug/Kg	J (all detects)
SL-121-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.9	4.1	PQL	ug/Kg	J (all detects)
SL-121-SA5DN-SB-8.0-9.0	METHYLENE CHLORIDE	J	2.1	4.1	PQL	ug/Kg	J (all detects)
SL-125-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.8	4.1	PQL	ug/Kg	J (all detects)
SL-125-SA5DN-SB-9.0-10.0	METHYLENE CHLORIDE	J	2.2	3.9	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	22	390	PQL	ug/Kg	J (all detects)
SL-097-SA5DN-SB-8.5-9.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	370	PQL	ug/Kg	J (all detects)
SL-098-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	49	390	PQL	ug/Kg	J (all detects)
SL-098-SA5DN-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	390	PQL	ug/Kg	J (all detects)
SL-099-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	380	PQL	ug/Kg	J (all detects)
SL-113-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	400	PQL	ug/Kg	J (all detects)
SL-120-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	370	PQL	ug/Kg	J (all detects)
SL-121-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	370	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.79	1.9	PQL	ug/Kg	J (all detects)
SL-113-SA5DN-SB-4.0-5.0	ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE INDENO(1,2,3-CD)PYRENE	J J J J J J	1.1 1.9 1.9 1.3 1.1 1.1	2.0 2.0 2.0 2.0 2.0 2.0	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)

LDC #: 26277P4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/30/11
SDG #: DE185 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	NC
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	DE186
VII.	Duplicate Sample Analysis	N	↓
VIII.	Laboratory Control Samples (LCS)	NA	SKM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	As, Ba, Co, Pb, Ni
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-097-SA5DN-SB-4.0-5.0	11	SL-125-SA5DN-SB-9.0-10.0	21		31	
2	SL-097-SA5DN-SB-8.5-9.5	12		22		32	
3	SL-098-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-098-SA5DN-SB-7.0-8.0	14		24		34	
5	SL-099-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-113-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-120-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-121-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-121-SA5DN-SB-8.0-9.0	19		29		39	
10	SL-125-SA5DN-SB-4.0-5.0	20		30		40	

Notes:

LDC #: 26277P4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 166.7X
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 1 (ND)

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit										
Hg			0.12	0.1										

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE186

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Jun-2011	TB-062211	6325688	TB	5030B	8015M	III
22-Jun-2011	TB-062211	6325688	TB	5030B	8260B	III
22-Jun-2011	TB-062211	6325688	TB	5030B	8260B SIM	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	3050B	6010B	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	3050B	6020	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	3060A	7199	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	3550B	8082	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	3550B	8270C	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	3550B	8270C SIM	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	5035	8260B	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	5035	8260B SIM	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	METHOD	300.0	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	METHOD	314.0	III
22-Jun-2011	SL-094-SA5DN-SB-4.0-5.0	6325676	N	METHOD	7471A	III
22-Jun-2011	SL-094-SA5DN-SB-9.0-10.0	6325677	N	3050B	6010B	III
22-Jun-2011	SL-094-SA5DN-SB-9.0-10.0	6325677	N	3050B	6020	III
22-Jun-2011	SL-094-SA5DN-SB-9.0-10.0	6325677	N	3060A	7199	III
22-Jun-2011	SL-094-SA5DN-SB-9.0-10.0	6325677	N	3550B	8082	III
22-Jun-2011	SL-094-SA5DN-SB-9.0-10.0	6325677	N	3550B	8270C	III
22-Jun-2011	SL-094-SA5DN-SB-9.0-10.0	6325677	N	3550B	8270C SIM	III
22-Jun-2011	SL-094-SA5DN-SB-9.0-10.0	6325677	N	METHOD	300.0	III
22-Jun-2011	SL-094-SA5DN-SB-9.0-10.0	6325677	N	METHOD	314.0	III
22-Jun-2011	SL-094-SA5DN-SB-9.0-10.0	6325677	N	METHOD	7471A	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	3050B	6010B	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	3050B	6020	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	3550B	8082	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	3550B	8270C	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	3550B	8270C SIM	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	5035	8260B	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	5035	8260B SIM	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	METHOD	300.0	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	METHOD	314.0	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	METHOD	6850	III
22-Jun-2011	SL-095-SA5DN-SB-4.0-5.0	6325678	N	METHOD	7471A	III
22-Jun-2011	SL-095-SA5DN-SB-9.0-10.0	6325679	N	3050B	6010B	III
22-Jun-2011	SL-095-SA5DN-SB-9.0-10.0	6325679	N	3050B	6020	III
22-Jun-2011	SL-095-SA5DN-SB-9.0-10.0	6325679	N	3060A	7199	III
22-Jun-2011	SL-095-SA5DN-SB-9.0-10.0	6325679	N	3550B	8082	III
22-Jun-2011	SL-095-SA5DN-SB-9.0-10.0	6325679	N	3550B	8270C	III
22-Jun-2011	SL-095-SA5DN-SB-9.0-10.0	6325679	N	3550B	8270C SIM	III
22-Jun-2011	SL-095-SA5DN-SB-9.0-10.0	6325679	N	METHOD	300.0	III
22-Jun-2011	SL-095-SA5DN-SB-9.0-10.0	6325679	N	METHOD	314.0	III
22-Jun-2011	SL-095-SA5DN-SB-9.0-10.0	6325679	N	METHOD	7471A	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	3050B	6010B	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	3050B	6020	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	3060A	7199	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	3546	1625C	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	3550B	8082	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	3550B	8270C	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	3550B	8270C SIM	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	5035	8260B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	5035	8260B SIM	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	METHOD	300.0	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	METHOD	314.0	III
22-Jun-2011	SL-115-SA5DN-SB-4.0-5.0	6325686	N	METHOD	7471A	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	3050B	6010B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	3050B	6020	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	3060A	7199	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	3546	1625C	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	3550B	8015B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	3550B	8015M	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	3550B	8082	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	3550B	8270C	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	3550B	8270C SIM	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	5035	8015M	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	5035	8260B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	5035	8260B SIM	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	8330	8330A	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	METHOD	300.0	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	METHOD	314.0	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	METHOD	7471A	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	METHOD	8015B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	METHOD	8015M	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	METHOD	8315A	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0	6325681	N	METHOD	9012B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	3050B	6010B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	3060A	7199	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	3546	1625C	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	3550B	8015B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	3550B	8015M	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	3550B	8082	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	3550B	8270C	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	3550B	8270C SIM	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	5035	8015M	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	5035	8260B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	5035	8260B SIM	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	8330	8330A	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	METHOD	300.0	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	METHOD	314.0	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	METHOD	7471A	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	METHOD	8015B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	METHOD	8015M	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	METHOD	8315A	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325682	MS	METHOD	9012B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325683	MS	5035	8260B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0DU	6325684	DUP	3050B	6010B	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0DU	6325684	DUP	3050B	6020	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0DU	6325684	DUP	3060A	7199	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0DU	6325684	DUP	METHOD	300.0	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0DU	6325684	DUP	METHOD	314.0	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0DU	6325684	DUP	METHOD	7471A	III
22-Jun-2011	SL-112-SA5DN-SB-4.0-5.0DU	6325684	DUP	METHOD	9012B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	3050B	6010B	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	3050B	6020	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	3060A	7199	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	3546	1625C	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	3550B	8015B	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	3550B	8015M	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	3550B	8082	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	3550B	8270C	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	3550B	8270C SIM	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	5035	8015M	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	5035	8260B	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	5035	8260B SIM	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	8330	8330A	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	METHOD	300.0	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	METHOD	314.0	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	METHOD	7471A	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	METHOD	8015B	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	METHOD	8015M	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	METHOD	8315A	III
22-Jun-2011	DUP16-SA5DN-QC-062211	6325687	FD	METHOD	9012B	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	3005A	6010B	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	3020A	6020	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	3510C	8015B	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	3510C	8015M	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	3510C	8082	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	3510C	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	3510C	8270C SIM	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	3520C	1625C	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	5030B	8015M	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	5030B	8260B	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	5030B	8260B SIM	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	8330	8330A	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	Gen Prep	300.0	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	Gen Prep	314.0	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	Gen Prep	7199	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	Gen Prep	8015B	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	Gen Prep	8015M	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	METHOD	7470A	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	METHOD	8315A	III
22-Jun-2011	EB19-SA5DN-SB-062211	6325689	EB	METHOD	9012B	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	3050B	6010B	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	3050B	6020	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	3060A	7199	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	3546	1625C	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	3550B	8082	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	3550B	8270C	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	3550B	8270C SIM	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	5035	8260B	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	5035	8260B SIM	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	METHOD	300.0	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	METHOD	314.0	III
22-Jun-2011	SL-114-SA5DN-SB-4.0-5.0	6325685	N	METHOD	7471A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	3050B	6010B	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	3050B	6020	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	3060A	7199	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	3546	1625C	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	3550B	8015B	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	3550B	8015M	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	3550B	8082	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	3550B	8270C	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	3550B	8270C SIM	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	5035	8015M	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	5035	8260B	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	5035	8260B SIM	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	8330	8330A	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	METHOD	300.0	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	METHOD	314.0	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	METHOD	7471A	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	METHOD	8015B	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	METHOD	8015M	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	METHOD	8315A	III
22-Jun-2011	SL-111-SA5DN-SB-4.0-5.0	6325680	N	METHOD	9012B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-094-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-094-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-095-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-095-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.1		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-111-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.7		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-114-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB19-SA5DN-SB-062211 *Collected:* 6/22/2011 1:45:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	0.186	J	0.0874	MDL	0.500	PQL	mg/L	U	B
STRONTIUM	0.00039	J	0.00022	MDL	0.0050	PQL	mg/L	U	B
Zirconium	0.0078	J	0.0042	MDL	0.0500	PQL	mg/L	J	Z

Sample ID: EB19-SA5DN-SB-062211 *Collected:* 6/22/2011 1:45:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0145	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3780		12.6	MDL	55.7	PQL	mg/Kg	J	Q
TIN	2.70	J	0.356	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-094-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3650		12.9	MDL	57.3	PQL	mg/Kg	J	Q
SODIUM	99.8	J	6.82	MDL	115	PQL	mg/Kg	J	Z
TIN	2.78	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	5.03	J	0.527	MDL	5.73	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-094-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3200		12.8	MDL	56.7	PQL	mg/Kg	J	Q
TIN	2.89	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.78	J	0.522	MDL	5.67	PQL	mg/Kg	U	F

Sample ID: SL-095-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4190		12.6	MDL	55.9	PQL	mg/Kg	J	Q
SODIUM	106	J	6.65	MDL	112	PQL	mg/Kg	J	Z
TIN	2.55	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.35	J	0.514	MDL	5.59	PQL	mg/Kg	U	F

Sample ID: SL-095-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2440		12.5	MDL	55.3	PQL	mg/Kg	J	Q
SODIUM	100	J	6.57	MDL	111	PQL	mg/Kg	J	Z
TIN	2.17	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.32	J	0.508	MDL	5.53	PQL	mg/Kg	U	F

Sample ID: SL-111-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3530		12.5	MDL	55.3	PQL	mg/Kg	J	Q
TIN	2.59	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.28	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3900		13.0	MDL	57.3	PQL	mg/Kg	J	Q
TIN	3.35	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.33	J	0.527	MDL	5.73	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-114-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3870		12.6	MDL	55.7	PQL	mg/Kg	J	Q
TIN	2.58	J	0.357	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.86	J	0.513	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3300		12.4	MDL	55.1	PQL	mg/Kg	J	Q
TIN	2.69	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.81	J	0.507	MDL	5.51	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.230		0.0832	MDL	0.225	PQL	mg/Kg	J	Q

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.104	J	0.0652	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.601		0.0562	MDL	0.112	PQL	mg/Kg	J	Q, E, E

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	187		0.119	MDL	0.450	PQL	mg/Kg	J	E, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP16-SA5DN-QC-062211 ***Collected:*** 6/22/2011 11:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.90		0.0899	MDL	0.450	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.01		0.0180	MDL	0.112	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.339		0.0495	MDL	0.112	PQL	mg/Kg	J	Q, E
CHROMIUM	33.7		0.135	MDL	0.450	PQL	mg/Kg	J	E, E
COBALT	11.6		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E, E, A
COPPER	16.9		0.0899	MDL	0.450	PQL	mg/Kg	J	Q, Q, E, E
LEAD	11.2		0.0115	MDL	0.225	PQL	mg/Kg	J	E, E, A
NICKEL	27.0		0.112	MDL	0.450	PQL	mg/Kg	J	E, E, Q, A
SILVER	0.0683	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.355		0.0337	MDL	0.112	PQL	mg/Kg	J	Q, Q, E
VANADIUM	54.7		0.0247	MDL	0.112	PQL	mg/Kg	J	E, E
ZINC	79.3		0.630	MDL	3.37	PQL	mg/Kg	J	E, E

Sample ID: SL-094-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 9:30:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.175	J	0.0848	MDL	0.229	PQL	mg/Kg	J	Z, Q

Sample ID: SL-094-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 9:30:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.174	J	0.0665	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-094-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 9:30:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.711		0.0573	MDL	0.115	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-094-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 9:30:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	205		0.121	MDL	0.458	PQL	mg/Kg	J	E, E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-094-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 9:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	13.4		0.0917	MDL	0.458	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.21		0.0183	MDL	0.115	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.380		0.0504	MDL	0.115	PQL	mg/Kg	J	Q, E
CHROMIUM	41.7		0.138	MDL	0.458	PQL	mg/Kg	J	E, E
COBALT	14.3		0.0229	MDL	0.115	PQL	mg/Kg	J	Q, E, E, A
COPPER	23.2		0.0917	MDL	0.458	PQL	mg/Kg	J	Q, Q, E, E
LEAD	13.8		0.0117	MDL	0.229	PQL	mg/Kg	J	E, E, A
NICKEL	34.6		0.115	MDL	0.458	PQL	mg/Kg	J	E, E, Q, A
SILVER	0.0603	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.483		0.0344	MDL	0.115	PQL	mg/Kg	J	Q, Q, E
VANADIUM	71.6		0.0252	MDL	0.115	PQL	mg/Kg	J	E, E
ZINC	104		0.642	MDL	3.44	PQL	mg/Kg	J	E, E

Sample ID: SL-094-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 9:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q

Sample ID: SL-094-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 9:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.524		0.0567	MDL	0.113	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-094-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 9:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	178		0.120	MDL	0.454	PQL	mg/Kg	J	E, E, A

Sample ID: SL-094-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 9:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.68		0.0908	MDL	0.454	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.22		0.0182	MDL	0.113	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.245		0.0499	MDL	0.113	PQL	mg/Kg	J	Q, E
CHROMIUM	38.4		0.136	MDL	0.454	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-094-SA5DN-SB-9.0-10.0 ***Collected:*** 6/22/2011 9:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	8.72		0.0227	MDL	0.113	PQL	mg/Kg	J	Q, E, E, A
COPPER	18.5		0.0908	MDL	0.454	PQL	mg/Kg	J	Q, Q, E, E
LEAD	11.3		0.0116	MDL	0.227	PQL	mg/Kg	J	E, E, A
NICKEL	26.6		0.113	MDL	0.454	PQL	mg/Kg	J	E, E, Q, A
SILVER	0.0969	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.443		0.0340	MDL	0.113	PQL	mg/Kg	J	Q, Q, E
VANADIUM	64.5		0.0250	MDL	0.113	PQL	mg/Kg	J	E, E
ZINC	77.8		0.635	MDL	3.40	PQL	mg/Kg	J	E, E

Sample ID: SL-095-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 10:10:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.186	J	0.0819	MDL	0.221	PQL	mg/Kg	J	Z, Q

Sample ID: SL-095-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 10:10:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.196	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 10:10:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.997		0.0553	MDL	0.111	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-095-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 10:10:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	157		0.117	MDL	0.443	PQL	mg/Kg	J	E, E, A

Sample ID: SL-095-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 10:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	12.7		0.0885	MDL	0.443	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.42		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.546		0.0487	MDL	0.111	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-095-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 10:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	49.9		0.133	MDL	0.443	PQL	mg/Kg	J	E, E
COBALT	19.9		0.0221	MDL	0.111	PQL	mg/Kg	J	Q, E, E, A
COPPER	29.1		0.0885	MDL	0.443	PQL	mg/Kg	J	Q, Q, E, E
LEAD	17.4		0.0113	MDL	0.221	PQL	mg/Kg	J	E, E, A
NICKEL	43.4		0.111	MDL	0.443	PQL	mg/Kg	J	E, E, Q, A
SILVER	0.0958	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.605		0.0332	MDL	0.111	PQL	mg/Kg	J	Q, Q, E
VANADIUM	81.1		0.0243	MDL	0.111	PQL	mg/Kg	J	E, E
ZINC	134		0.620	MDL	3.32	PQL	mg/Kg	J	E, E

Sample ID: SL-095-SA5DN-SB-9.0-10.0 ***Collected:*** 6/22/2011 10:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.164	J	0.0810	MDL	0.219	PQL	mg/Kg	J	Z, Q

Sample ID: SL-095-SA5DN-SB-9.0-10.0 ***Collected:*** 6/22/2011 10:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.524		0.0547	MDL	0.109	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-095-SA5DN-SB-9.0-10.0 ***Collected:*** 6/22/2011 10:15:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	135		0.116	MDL	0.438	PQL	mg/Kg	J	E, E, A

Sample ID: SL-095-SA5DN-SB-9.0-10.0 ***Collected:*** 6/22/2011 10:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	8.11		0.0875	MDL	0.438	PQL	mg/Kg	J	E, E, A
BERYLLIUM	0.867		0.0175	MDL	0.109	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.342		0.0481	MDL	0.109	PQL	mg/Kg	J	Q, E
CHROMIUM	28.0		0.131	MDL	0.438	PQL	mg/Kg	J	E, E
COBALT	10.3		0.0219	MDL	0.109	PQL	mg/Kg	J	Q, E, E, A
COPPER	14.0		0.0875	MDL	0.438	PQL	mg/Kg	J	Q, Q, E, E
LEAD	9.68		0.0112	MDL	0.219	PQL	mg/Kg	J	E, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 Laboratory: LL

EDD Filename: DE186_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-095-SA5DN-SB-9.0-10.0 **Collected:** 6/22/2011 10:15:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	24.9		0.109	MDL	0.438	PQL	mg/Kg	J	E, E, Q, A
SILVER	0.0536	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.388		0.0328	MDL	0.109	PQL	mg/Kg	J	Q, Q, E
VANADIUM	52.9		0.0241	MDL	0.109	PQL	mg/Kg	J	E, E
ZINC	66.4		0.613	MDL	3.28	PQL	mg/Kg	J	E, E

Sample ID: SL-111-SA5DN-SB-4.0-5.0 **Collected:** 6/22/2011 3:20:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.159	J	0.0834	MDL	0.226	PQL	mg/Kg	J	Z, Q

Sample ID: SL-111-SA5DN-SB-4.0-5.0 **Collected:** 6/22/2011 3:20:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0749	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-111-SA5DN-SB-4.0-5.0 **Collected:** 6/22/2011 3:20:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.582		0.0564	MDL	0.113	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-111-SA5DN-SB-4.0-5.0 **Collected:** 6/22/2011 3:20:00 **Analysis Type:** REA4 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	181		0.120	MDL	0.451	PQL	mg/Kg	J	E, E, A

Sample ID: SL-111-SA5DN-SB-4.0-5.0 **Collected:** 6/22/2011 3:20:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.67		0.0902	MDL	0.451	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.05		0.0180	MDL	0.113	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.270		0.0496	MDL	0.113	PQL	mg/Kg	J	Q, E
CHROMIUM	36.2		0.135	MDL	0.451	PQL	mg/Kg	J	E, E
COBALT	12.3		0.0226	MDL	0.113	PQL	mg/Kg	J	Q, E, E, A
COPPER	18.1		0.0902	MDL	0.451	PQL	mg/Kg	J	Q, Q, E, E

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-111-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 3:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	11.7		0.0115	MDL	0.226	PQL	mg/Kg	J	E, E, A
NICKEL	27.3		0.113	MDL	0.451	PQL	mg/Kg	J	E, E, Q, A
SILVER	0.0763	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.394		0.0338	MDL	0.113	PQL	mg/Kg	J	Q, Q, E
VANADIUM	62.6		0.0248	MDL	0.113	PQL	mg/Kg	J	E, E
ZINC	77.9		0.631	MDL	3.38	PQL	mg/Kg	J	E, E

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.229		0.0849	MDL	0.229	PQL	mg/Kg	J	Q

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0665	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.831		0.0573	MDL	0.115	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* REA4 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	229		0.304	MDL	1.15	PQL	mg/Kg	J	E, E, A

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	12.3		0.0917	MDL	0.459	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.28		0.0183	MDL	0.115	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.506		0.0505	MDL	0.115	PQL	mg/Kg	J	Q, E
CHROMIUM	47.0		0.138	MDL	0.459	PQL	mg/Kg	J	E, E
COBALT	18.5		0.0229	MDL	0.115	PQL	mg/Kg	J	Q, E, E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-112-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 11:45:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	23.2		0.0917	MDL	0.459	PQL	mg/Kg	J	Q, Q, E, E
LEAD	15.9		0.0117	MDL	0.229	PQL	mg/Kg	J	E, E, A
NICKEL	42.5		0.115	MDL	0.459	PQL	mg/Kg	J	E, E, Q, A
SILVER	0.0865	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.549		0.0344	MDL	0.115	PQL	mg/Kg	J	Q, Q, E
VANADIUM	80.6		0.0252	MDL	0.115	PQL	mg/Kg	J	E, E
ZINC	109		0.642	MDL	3.44	PQL	mg/Kg	J	E, E

Sample ID: SL-114-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 2:25:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.0801	MDL	0.217	PQL	mg/Kg	J	Z, Q

Sample ID: SL-114-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 2:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 2:25:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.816		0.0541	MDL	0.108	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-114-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 2:25:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	142		0.115	MDL	0.433	PQL	mg/Kg	J	E, E, A

Sample ID: SL-114-SA5DN-SB-4.0-5.0 ***Collected:*** 6/22/2011 2:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.87		0.0866	MDL	0.433	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.17		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.418		0.0476	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	38.9		0.130	MDL	0.433	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 Laboratory: LL

EDD Filename: DE186_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-114-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 2:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	15.0		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E, E, A
COPPER	21.9		0.0866	MDL	0.433	PQL	mg/Kg	J	Q, Q, E, E
LEAD	13.3		0.0110	MDL	0.217	PQL	mg/Kg	J	E, E, A
NICKEL	33.0		0.108	MDL	0.433	PQL	mg/Kg	J	E, E, Q, A
SILVER	0.0681	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.479		0.0325	MDL	0.108	PQL	mg/Kg	J	Q, Q, E
VANADIUM	62.5		0.0238	MDL	0.108	PQL	mg/Kg	J	E, E
ZINC	97.5		0.606	MDL	3.25	PQL	mg/Kg	J	E, E

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0831	MDL	0.225	PQL	mg/Kg	J	Z, Q

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0811	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.406		0.0562	MDL	0.112	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	165		0.119	MDL	0.449	PQL	mg/Kg	J	E, E, A

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	9.56		0.0898	MDL	0.449	PQL	mg/Kg	J	E, E, A
BERYLLIUM	1.04		0.0180	MDL	0.112	PQL	mg/Kg	J	Q, Q, E, E
CADMIUM	0.343		0.0494	MDL	0.112	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 Laboratory: LL

EDD Filename: DE186_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS **Method:** 6020 **Matrix:** SO

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	37.3		0.135	MDL	0.449	PQL	mg/Kg	J	E, E
COBALT	14.8		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E, E, A
COPPER	18.0		0.0898	MDL	0.449	PQL	mg/Kg	J	Q, Q, E, E
LEAD	12.7		0.0115	MDL	0.225	PQL	mg/Kg	J	E, E, A
NICKEL	33.6		0.112	MDL	0.449	PQL	mg/Kg	J	E, E, Q, A
SILVER	0.0682	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.404		0.0337	MDL	0.112	PQL	mg/Kg	J	Q, Q, E
VANADIUM	60.5		0.0247	MDL	0.112	PQL	mg/Kg	J	E, E
ZINC	83.1		0.629	MDL	3.37	PQL	mg/Kg	J	E, E

Method Category: METALS **Method:** 7199 **Matrix:** AQ

Sample ID: EB19-SA5DN-SB-062211 *Collected:* 6/22/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	R	H

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

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-094-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.57	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-095-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.86	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-111-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.74	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.010	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-094-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0217	J	0.0078	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-094-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0359	J	0.0080	MDL	0.114	PQL	mg/Kg	U	B

Sample ID: SL-095-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0164	J	0.0075	MDL	0.107	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE186 Laboratory: LL

EDD Filename: DE186_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A Matrix: SO

Sample ID: SL-095-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0170	J	0.0076	MDL	0.108	PQL	mg/Kg	U	B

Sample ID: SL-111-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0518	J	0.0076	MDL	0.108	PQL	mg/Kg	U	B

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0104	J	0.0078	MDL	0.112	PQL	mg/Kg	U	B

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0102	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M Matrix: SO

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	2.6		0.46	MDL	1.4	PQL	mg/Kg	J	FD
EFH (C30-C40)	15		0.46	MDL	1.4	PQL	mg/Kg	J	FD

Sample ID: SL-111-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 3:20:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.96	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.8	U	5.8	MDL	12	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	5.8	U	5.8	MDL	12	PQL	mg/Kg	UJ	Q

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.4	J	0.47	MDL	1.4	PQL	mg/Kg	J	FD
EFH (C30-C40)	4.2		0.47	MDL	1.4	PQL	mg/Kg	J	Q, FD

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.7	J	1.1	MDL	3.8	PQL	ug/Kg	J	Z, FD, L

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.2	U	1.2	MDL	3.9	PQL	ug/Kg	UJ	FD

Method Category: SVOA

Method: 8270C **Matrix:** AQ

Sample ID: EB19-SA5DN-SB-062211 *Collected:* 6/22/2011 1:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	2	U	2	MDL	5	PQL	ug/L	UJ	L, E
4-CHLOROANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	L, E
ANILINE	1	U	1	MDL	5	PQL	ug/L	UJ	E
BENZIDINE	20	U	20	MDL	59	PQL	ug/L	UJ	E
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-094-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 9:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-095-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	19	MDL	380	PQL	ug/Kg	J	Z

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1400	U	1400	MDL	3900	PQL	ug/Kg	UJ	Q

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

Sample ID: EB19-SA5DN-SB-062211 *Collected:* 6/22/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.012	J	0.0097	MDL	0.048	PQL	ug/L	J	Z
2-METHYLNAPHTHALENE	0.012	J	0.0097	MDL	0.048	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.11	J	0.048	MDL	0.97	PQL	ug/L	U	B
Di-n-butylphthalate	0.17	J	0.048	MDL	0.97	PQL	ug/L	U	B

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

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	6.8	U	6.8	MDL	20	PQL	ug/Kg	UJ	FD

Sample ID: SL-095-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.75	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-111-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 3:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	11	J	6.9	MDL	21	PQL	ug/Kg	J	Z, FD

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.8	U	1.8	MDL	4.1	PQL	mg/Kg	UJ	Q

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* RES *Dilution:* 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.5	J	6.4	MDL	7.6	PQL	ug/Kg	J	Z, FD
METHYLENE CHLORIDE	1.6	J	0.23	MDL	3.8	PQL	ug/Kg	U	B, F
TOLUENE	0.08	J	0.08	MDL	3.8	PQL	ug/Kg	UJ	B, FD

Sample ID: SL-094-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 9:30:00 *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.8	J	0.24	MDL	4.0	PQL	ug/Kg	U	B, F
TOLUENE	0.09	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-095-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:10:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.9	J	0.24	MDL	4.0	PQL	ug/Kg	U	B, F

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory:** LL

EDD Filename: DE186_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-095-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:10:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.10	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

Sample ID: SL-111-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 3:20:00 *Analysis Type:* RES *Dilution:* 0.81

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.6	J	0.22	MDL	3.7	PQL	ug/Kg	U	B, F

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES *Dilution:* 0.91

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.1	U	7.1	MDL	8.5	PQL	ug/Kg	UJ	FD
METHYLENE CHLORIDE	1.6	J	0.25	MDL	4.2	PQL	ug/Kg	U	B, F
TOLUENE	0.08	U	0.08	MDL	4.2	PQL	ug/Kg	UJ	FD

Sample ID: SL-114-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 2:25:00 *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.0	J	0.23	MDL	3.9	PQL	ug/Kg	U	B, F
TOLUENE	0.1	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* RES *Dilution:* 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.7	J	0.26	MDL	4.3	PQL	ug/Kg	U	B, F
TOLUENE	0.10	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE186

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE186 **Laboratory: LL**
EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199 **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	*Type*	*Actual*	*Criteria*	*Units*	*Flag*
EB19-SA5DN-SB-062211 (RES)	Sampling To Analysis	72.00	24.00	HOURS	J (all detects) R (all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18048AB220913	6/30/2011 9:13:00 AM	ALUMINUM CALCIUM POTASSIUM STRONTIUM	0.115 mg/L 0.0787 mg/L 0.155 mg/L 0.00041 mg/L	EB19-SA5DN-SB-062211
P18048AB221138	7/6/2011 11:38:00 AM	BORON	0.0150 mg/L	EB19-SA5DN-SB-062211

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB19-SA5DN-SB-062211(REA2)	POTASSIUM	0.186 mg/L	0.186U mg/L
EB19-SA5DN-SB-062211(REA2)	STRONTIUM	0.00039 mg/L	0.00039U mg/L
EB19-SA5DN-SB-062211(REA3)	BORON	0.0145 mg/L	0.0145U mg/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17908AB221624	6/30/2011 4:24:00 PM	MAGNESIUM MANGANESE PHOSPHORUS TIN	1.16 mg/Kg 0.135 mg/Kg 1.38 mg/Kg 1.57 mg/Kg	DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP16-SA5DN-QC-062211(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	TIN	2.17 mg/Kg	2.17U mg/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	TIN	3.35 mg/Kg	3.35U mg/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17426AB220722A	6/24/2011 7:22:00 AM	COPPER	0.308 mg/Kg	DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB01B211216A	6/28/2011 12:16:00 PM	METHYLENE CHLORIDE TOLUENE	1.4 ug/Kg 0.08 ug/Kg	DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-4.0-5.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP16-SA5DN-QC-062211(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	3.8U ug/Kg
DUP16-SA5DN-QC-062211(RES)	TOLUENE	0.08 ug/Kg	3.8U ug/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	4.0U ug/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	4.0U ug/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.9 ug/Kg	4.0U ug/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.10 ug/Kg	4.0U ug/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	3.7U ug/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	4.2U ug/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.0 ug/Kg	3.9U ug/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	3.9U ug/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	4.3U ug/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.10 ug/Kg	4.3U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWD17B262052	7/3/2011 8:52:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	0.071 ug/L 0.084 ug/L	EB19-SA5DN-SB-062211

Method Blank Outlier Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB19-SA5DN-SB-062211(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.11 ug/L	0.97U ug/L
EB19-SA5DN-SB-062211(RES)	Di-n-butylphthalate	0.17 ug/L	0.97U ug/L

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

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

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB19-SA5DN-SB-062211 (REA2)	6/22/2011 1:45:00 PM	POTASSIUM STRONTIUM Zirconium	0.186 mg/L 0.00039 mg/L 0.0078 mg/L	DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0
EB19-SA5DN-SB-062211 (REA3)	6/22/2011 1:45:00 PM	BORON	0.0145 mg/L	DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-094-SA5DN-SB-9.0-10.0(RES)	Zirconium	3.78 mg/Kg	3.78U mg/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	Zirconium	2.35 mg/Kg	2.35U mg/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	Zirconium	2.32 mg/Kg	2.32U mg/Kg

Method: **8260B**
Matrix: **SO**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB19-SA5DN-SB-062211 (RES)	6/22/2011 1:45:00 PM	METHYLENE CHLORIDE	7 ug/L	DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP16-SA5DN-QC-062211(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	3.8U ug/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	4.0U ug/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.9 ug/Kg	4.0U ug/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	3.7U ug/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.6 ug/Kg	4.2U ug/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.0 ug/Kg	3.9U ug/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	4.3U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE186 Laboratory: LL

EDD Filename: DE186_v1 eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA5DN-SB-4.0-5.0MS SL-112-SA5DN-SB-4.0-5.0MSD (SL-112-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	37 61	36 -	59.00-109.00 63.00-107.00	- -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA5DN-SB-4.0-5.0MS SL-112-SA5DN-SB-4.0-5.0MSD (SL-112-SA5DN-SB-4.0-5.0)	m-Terphenyl	66	68	75.00-125.00	-	m-Terphenyl	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA5DN-SB-4.0-5.0MS SL-112-SA5DN-SB-4.0-5.0MSD (SL-112-SA5DN-SB-4.0-5.0)	EFH (C30-C40)	-29	-50	49.00-123.00	-	EFH (C30-C40)	J(all detects) R(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA5DN-SB-4.0-5.0MS	ARSENIC	-76	172	75.00-125.00	43 (20.00)	ARSENIC	
SL-112-SA5DN-SB-4.0-5.0MSD	CHROMIUM	-25	157	75.00-125.00	38 (20.00)	CHROMIUM	J(all detects) UJ(all non-detects)
(DUP16-SA5DN-QC-062211	LEAD	-58	188	75.00-125.00	47 (20.00)	LEAD	
SL-094-SA5DN-SB-4.0-5.0	NICKEL	-25	158	75.00-125.00	42 (20.00)	NICKEL	
SL-094-SA5DN-SB-9.0-10.0	VANADIUM	-105	172	75.00-125.00	38 (20.00)	VANADIUM	As, Cr, Pb, V, Zn, No Qual, %R, >4x
SL-095-SA5DN-SB-4.0-5.0	ZINC	-184	278	75.00-125.00	46 (20.00)	ZINC	
SL-095-SA5DN-SB-9.0-10.0							
SL-111-SA5DN-SB-4.0-5.0							Ni, J(all detects)
SL-112-SA5DN-SB-4.0-5.0							R (all non-detects)
SL-114-SA5DN-SB-4.0-5.0							Ni post spike = 65%
SL-115-SA5DN-SB-4.0-5.0)							

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA5DN-SB-4.0-5.0MS SL-112-SA5DN-SB-4.0-5.0MSD (DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0)	ANTIMONY BERYLLIUM CADMIUM COBALT COPPER SILVER THALLIUM	51 47 - - 35 - 62	46 129 128 129 161 130 138	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 36 (20.00) 30 (20.00) 31 (20.00) 42 (20.00) 24 (20.00) 34 (20.00)	ANTIMONY BERYLLIUM CADMIUM COBALT COPPER SILVER THALLIUM	J(all detects) UJ(all non-detects)
SL-112-SA5DN-SB-4.0-5.0MSD (DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0)	MOLYBDENUM	-	130	75.00-125.00	28 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-112-SA5DN-SB-4.0-5.0MS SL-112-SA5DN-SB-4.0-5.0MSD (DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0)	BARIUM	-454	238	75.00-125.00	37 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual, %R, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA5DN-SB-4.0-5.0MSD (SL-112-SA5DN-SB-4.0-5.0)	BENZIDINE	-	33	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA5DN-SB-4.0-5.0MS (DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0)	FLUORIDE	52	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-112-SA5DN-SB-4.0-5.0MS	ALUMINUM	2698	3301	75.00-125.00	-	ALUMINUM	
SL-112-SA5DN-SB-4.0-5.0MSD	CALCIUM	-	133	75.00-125.00	-	CALCIUM	
(DUP16-SA5DN-QC-062211	IRON	621	1094	75.00-125.00	-	IRON	J(all detects)
SL-094-SA5DN-SB-4.0-5.0	MAGNESIUM	266	310	75.00-125.00	-	MAGNESIUM	
SL-094-SA5DN-SB-9.0-10.0	MANGANESE	158	207	75.00-125.00	-	MANGANESE	
SL-095-SA5DN-SB-4.0-5.0	POTASSIUM	147	147	75.00-125.00	-	POTASSIUM	
SL-095-SA5DN-SB-9.0-10.0							Al, Ca, Fe, Mg, Mn, No Qual, >4x
SL-111-SA5DN-SB-4.0-5.0							
SL-112-SA5DN-SB-4.0-5.0							
SL-114-SA5DN-SB-4.0-5.0							
SL-115-SA5DN-SB-4.0-5.0)							
SL-112-SA5DN-SB-4.0-5.0MS	TITANIUM	177	281	75.00-125.00	-	TITANIUM	
SL-112-SA5DN-SB-4.0-5.0MSD							
(DUP16-SA5DN-QC-062211							
SL-094-SA5DN-SB-4.0-5.0							
SL-094-SA5DN-SB-9.0-10.0							
SL-095-SA5DN-SB-4.0-5.0							No Qual, >4x
SL-095-SA5DN-SB-9.0-10.0							
SL-111-SA5DN-SB-4.0-5.0							
SL-112-SA5DN-SB-4.0-5.0							
SL-114-SA5DN-SB-4.0-5.0							
SL-115-SA5DN-SB-4.0-5.0)							

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-112-SA5DN-SB-4.0-5.0DUP (DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0)	TIN	23	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-112-SA5DN-SB-4.0-5.0DUP (DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0)	ANTIMONY	25	20.00	
	ARSENIC	49	20.00	
	BARIUM	29	20.00	
	BERYLLIUM	30	20.00	
	CADMIUM	50	20.00	J(all detects) UJ(all non-detects)
	CHROMIUM	41	20.00	
	COBALT	50	20.00	
	COPPER	36	20.00	
	LEAD	39	20.00	
	MOLYBDENUM	62	20.00	
	NICKEL	40	20.00	Sb, Cd, Se, Tl, No Qual, OK by Difference
	SELENIUM	49	20.00	
	THALLIUM	36	20.00	
	VANADIUM	49	20.00	
	ZINC	36	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11794AQ241047A P11794AY241129A (EB19-SA5DN-SB-062211)	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE	110 110	110 110	76.00-109.00 69.00-107.00	- -	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE	J(all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSQ260155 P8WBLCSY260220 (EB19-SA5DN-SB-062211)	3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE ANILINE BENZIDINE BENZOIC ACID	26 41 - - -	45 - - - -	49.00-111.00 42.00-124.00 49.00-101.00 20.00-109.00 10.00-69.00	53 (30.00) 53 (30.00) 34 (30.00) 36 (30.00) 47 (30.00)	3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE ANILINE BENZIDINE BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WDLCSQ262124 P8WDLCSY262155 (EB19-SA5DN-SB-062211)	BENZO(B)FLUORANTHENE INDENO(1,2,3-CD)PYRENE	137 135	130 128	69.00-123.00 69.00-124.00	- -	BENZO(B)FLUORANTHENE INDENO(1,2,3-CD)PYRENE	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11769AY241944A (DUP16-SA5DN-QC-062211 SL-094-SA5DN-SB-4.0-5.0 SL-094-SA5DN-SB-9.0-10.0 SL-095-SA5DN-SB-4.0-5.0 SL-095-SA5DN-SB-9.0-10.0 SL-111-SA5DN-SB-4.0-5.0 SL-112-SA5DN-SB-4.0-5.0 SL-114-SA5DN-SB-4.0-5.0 SL-115-SA5DN-SB-4.0-5.0)	Aroclor 5442	-	111	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: PrepDE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
MOISTURE	14.5	12.8	12		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
FLUORIDE	3.0	3.3	10	50.00	No Qualifiers Applied
Nitrate-NO3	2.1	1.7	21	50.00	

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
ALUMINUM	36500	37900	4	50.00	No Qualifiers Applied
BORON	17.8	16.6	7	50.00	
CALCIUM	6820	6970	2	50.00	
IRON	38400	38800	1	50.00	
LITHIUM	31.3	30.9	1	50.00	
MAGNESIUM	8050	8360	4	50.00	
MANGANESE	443	453	2	50.00	
PHOSPHORUS	325	337	4	50.00	
POTASSIUM	3900	3780	3	50.00	
SODIUM	186	190	2	50.00	
STRONTIUM	36.3	37.7	4	50.00	
TIN	3.35	2.70	21	50.00	
TITANIUM	1270	1050	19	50.00	
Zirconium	4.33	5.91	31	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
ANTIMONY	0.229	0.230	0	50.00	No Qualifiers Applied
ARSENIC	12.3	7.90	44	50.00	
BARIUM	229	187	20	50.00	
BERYLLIUM	1.28	1.01	24	50.00	
CADMIUM	0.506	0.339	40	50.00	
CHROMIUM	47.0	33.7	33	50.00	
COBALT	18.5	11.6	46	50.00	
COPPER	23.2	16.9	31	50.00	
LEAD	15.9	11.2	35	50.00	
MOLYBDENUM	0.831	0.601	32	50.00	
NICKEL	42.5	27.0	45	50.00	
SELENIUM	0.144	0.104	32	50.00	
SILVER	0.0865	0.0683	24	50.00	
THALLIUM	0.549	0.355	43	50.00	
VANADIUM	80.6	54.7	38	50.00	
ZINC	109	79.3	32	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: PrepDE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
HEXAVALENT CHROMIUM	0.74	0.70	6	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
MERCURY	0.0104	0.010	4	50.00	No Qualifiers Applied

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
EFH (C21-C30)	1.4	2.6	60	50.00	J(all detects)
EFH (C30-C40)	4.2	15	113	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
Aroclor 5460	3.9 U	1.7	200	50.00	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
METHYLENE CHLORIDE	1.6	1.6	0	50.00	No Qualifiers Applied
ACETONE	8.5 U	7.5	200	50.00	J(all detects)
TOLUENE	4.2 U	0.08	200	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
Di-n-butylphthalate	11	20 U	200	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: PrepDE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 9045M
Matrix: SO

Analyte	*Concentration (pH unit)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
PH	7.38	7.39	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB19-SA5DN-SB-062211	BORON	J	0.0145	0.0500	PQL	mg/L	J (all detects)
	POTASSIUM	J	0.186	0.500	PQL	mg/L	
	STRONTIUM	J	0.00039	0.0050	PQL	mg/L	
	Zirconium	J	0.0078	0.0500	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB19-SA5DN-SB-062211	1-METHYLNAPHTHALENE	J	0.012	0.048	PQL	ug/L	J (all detects)
	2-METHYLNAPHTHALENE	J	0.012	0.048	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.11	0.97	PQL	ug/L	
	Di-n-butylphthalate	J	0.17	0.97	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5DN-QC-062211	TIN	J	2.70	11.1	PQL	mg/Kg	J (all detects)
SL-094-SA5DN-SB-4.0-5.0	SODIUM	J	99.8	115	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	11.5	PQL	mg/Kg	
	Zirconium	J	5.03	5.73	PQL	mg/Kg	
SL-094-SA5DN-SB-9.0-10.0	TIN	J	2.89	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.78	5.67	PQL	mg/Kg	
SL-095-SA5DN-SB-4.0-5.0	SODIUM	J	106	112	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	11.2	PQL	mg/Kg	
	Zirconium	J	2.35	5.59	PQL	mg/Kg	
SL-095-SA5DN-SB-9.0-10.0	SODIUM	J	100	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.17	11.1	PQL	mg/Kg	
	Zirconium	J	2.32	5.53	PQL	mg/Kg	
SL-111-SA5DN-SB-4.0-5.0	TIN	J	2.59	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.28	5.53	PQL	mg/Kg	
SL-112-SA5DN-SB-4.0-5.0	TIN	J	3.35	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.33	5.73	PQL	mg/Kg	
SL-114-SA5DN-SB-4.0-5.0	TIN	J	2.58	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.86	5.57	PQL	mg/Kg	
SL-115-SA5DN-SB-4.0-5.0	TIN	J	2.69	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.81	5.51	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5DN-QC-062211	SELENIUM	J	0.104	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0683	0.112	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-094-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.175	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.174	0.458	PQL	mg/Kg	
	SILVER	J	0.0603	0.115	PQL	mg/Kg	
SL-094-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.190	0.227	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0969	0.113	PQL	mg/Kg	
SL-095-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.186	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.196	0.443	PQL	mg/Kg	
	SILVER	J	0.0958	0.111	PQL	mg/Kg	
SL-095-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.164	0.219	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0536	0.109	PQL	mg/Kg	
SL-111-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.159	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0749	0.451	PQL	mg/Kg	
	SILVER	J	0.0763	0.113	PQL	mg/Kg	
SL-112-SA5DN-SB-4.0-5.0	SELENIUM	J	0.144	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0865	0.115	PQL	mg/Kg	
SL-114-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.169	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.122	0.433	PQL	mg/Kg	
	SILVER	J	0.0681	0.108	PQL	mg/Kg	
SL-115-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.156	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0811	0.449	PQL	mg/Kg	
	SILVER	J	0.0682	0.112	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5DN-QC-062211	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)
SL-094-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.57	1.2	PQL	mg/Kg	J (all detects)
SL-095-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.86	1.1	PQL	mg/Kg	J (all detects)
SL-111-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-112-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.74	1.2	PQL	mg/Kg	J (all detects)
SL-114-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5DN-QC-062211	MERCURY	J	0.010	0.111	PQL	mg/Kg	J (all detects)
SL-094-SA5DN-SB-4.0-5.0	MERCURY	J	0.0217	0.110	PQL	mg/Kg	J (all detects)
SL-094-SA5DN-SB-9.0-10.0	MERCURY	J	0.0359	0.114	PQL	mg/Kg	J (all detects)
SL-095-SA5DN-SB-4.0-5.0	MERCURY	J	0.0164	0.107	PQL	mg/Kg	J (all detects)
SL-095-SA5DN-SB-9.0-10.0	MERCURY	J	0.0170	0.108	PQL	mg/Kg	J (all detects)
SL-111-SA5DN-SB-4.0-5.0	MERCURY	J	0.0518	0.108	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-112-SA5DN-SB-4.0-5.0	MERCURY	J	0.0104	0.112	PQL	mg/Kg	J (all detects)
SL-115-SA5DN-SB-4.0-5.0	MERCURY	J	0.0102	0.111	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-111-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.96	1.4	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5DN-QC-062211	Aroclor 5460	J	1.7	3.8	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5DN-QC-062211	ACETONE METHYLENE CHLORIDE TOLUENE	J J J	7.5 1.6 0.08	7.6 3.8 3.8	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-094-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.8 0.09	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-095-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.9 0.10	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-111-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.6	3.7	PQL	ug/Kg	J (all detects)
SL-112-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.6	4.2	PQL	ug/Kg	J (all detects)
SL-114-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	2.0 0.1	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-115-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	1.7 0.10	4.3 4.3	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-094-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	390	PQL	ug/Kg	J (all detects)
SL-095-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	380	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE186 **Laboratory: LL**

EDD Filename: DE186_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-095-SA5DN-SB-9.0-10.0	CHRYSENE	J	0.75	1.9	PQL	ug/Kg	J (all detects)
SL-111-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	20	PQL	ug/Kg	J (all detects)
SL-112-SA5DN-SB-4.0-5.0	Di-n-butylphthalate	J	11	21	PQL	ug/Kg	J (all detects)

LDC #: 26277Q4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/30/11
SDG #: DE186 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MH
2nd Reviewer: A

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	~~Method~~.
V.	ICP Interference Check Sample (ICS) Analysis	N	RPD RPD RPD RPD
VI.	Matrix Spike Analysis	SW	Al, As, Ba, Ca, Cr, Fe, Pb, Mg, Mn, Ti, V, Zn, <5X.
VII.	Duplicate Sample Analysis	SW	Sb, Cd, Se, Tl, Sn, <5X, Inorganic TOR.
VIII.	Laboratory Control Samples (LCS)	A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	As, Ba, Co, Pb, Ni.
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV	Field Blanks	SW	TB = 10

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

Validated Samples:

1	SL-094-SA5DN-SB-4.0-5.0	11	SL-112-SA5DN-SB-4.0-5.0MS	21		31	
2	SL-094-SA5DN-SB-9.0-10.0	12	SL-112-SA5DN-SB-4.0-5.0MSD	22		32	
3	SL-095-SA5DN-SB-4.0-5.0	13	SL-112-SA5DN-SB-4.0-5.0DUP	23		33	
4	SL-095-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-111-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-112-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-114-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-115-SA5DN-SB-4.0-5.0	18		28		38	
9	DUP16-SA5DN-QC-062211	19		29		39	
10	EB19-SA5DN-SB-062211	20		30		40	

Notes: No difference 0.3919 (≤ 0.230)

LDC #: 26277Q4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 166.7X
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 2-6

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	2	3	4	5	6					
Hg			0.10	0.083	0.036	0.016	0.017	0.052	0.010					

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26277Q4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer:
2nd Reviewer:

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

Y N N/A Were field blanks identified in this SDG?

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

Blank units: mg/L **Associated sample units:** mg/Kg

Sampling date: 6/22/11 Soil factor applied 100X

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

Analyte	Blank ID	Sample Identification											
	10	Action Level	2	3	4								
B	0.0145	7.25											
K	0.186	93											
Sr	0.00039	0.195											
Zr	0.0078	3.9	3.8	2.4	2.3								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE186
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6325681BKG Matrix Spike Lab Sample ID: 6325682MS Matrix Spike Duplicate Lab Sample ID: 6325683MSD
% Solids for Sample: 85.5
Batch Id(s): P17908A, P17426A, P17411B, P18608B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		36470.9288		42657.6929		43968.5619		229.3315	227.1050	MG/KG	2698		3301		3			20	P
Antimony	121	0.2293		0.9258		0.8630		1.3760	1.3760	MG/KG	51	N	46	N	7		75 - 125	20	MS
Arsenic	75	12.2669		10.5148		16.2137		2.2933	2.2933	MG/KG	-76		172		43	*		20	MS
Barium	137	229.2742		177.0898		256.5073		11.4666	11.4666	MG/KG	-455		237		37	*		20	MS
Beryllium	9	1.2843		1.7120		2.4676		0.9173	0.9173	MG/KG	47	N	129	N	36	*	75 - 125	20	MS
Boron		17.8489		252.9263		251.2474		229.3315	227.1050	MG/KG	103		103		1		84 - 115	20	P
Cadmium	111	0.5059		1.4528		1.9725		1.1467	1.1467	MG/KG	83		128	N	30	*	75 - 125	20	MS
Calcium		6820.6513		7291.2510		7423.9403		458.6630	454.2100	MG/KG	103		133		2			20	P
Chromium	52	46.9900		44.1692		64.9696		11.4666	11.4666	MG/KG	-25		157		38	*		20	MS
Cobalt	59	18.4749		67.2859		92.3977		57.3329	57.3329	MG/KG	85		129	N	31	*	75 - 125	20	MS
Copper	63	23.2083		27.1758		41.6925		11.4666	11.4666	MG/KG	35	N	161	N	42	*	75 - 125	20	MS
Iron		38414.9295		39126.8031		39657.1680		114.6657	113.5525	MG/KG	621		1094		1			20	P
Lead	208	15.8583		13.8654		22.3323		3.4400	3.4400	MG/KG	-58		188		47	*		20	MS
Lithium		31.3370		152.4630		149.8132		114.6657	113.5525	MG/KG	106		104		2		82 - 114	20	P
Magnesium		8053.2462		8662.7325		8756.7672		229.3315	227.1050	MG/KG	266		310		1			20	P
Manganese		442.8426		533.6498		560.1056		57.3329	56.7762	MG/KG	158		207		5			20	P
Mercury		0.0104	B	0.1823		0.1811		0.1901	0.1908	MG/KG	90		89		1		80 - 120	20	CV
Molybdenum	98	0.8309		11.9207		15.7620		11.4666	11.4666	MG/KG	97		130	N	28	*	75 - 125	20	MS
Nickel	60	42.4722		39.6285		60.6352		11.4666	11.4666	MG/KG	-25	N	158	N	42	*	75 - 125	20	MS
Phosphorus		324.9455		455.7126		437.2588		114.6657	113.5525	MG/KG	114		99		4		75 - 125	20	P
Potassium		3900.8451		5581.6615		5566.7950		1146.6575	1135.5249	MG/KG	147	N	147	N	0		75 - 125	20	P
Selenium	78	0.1438	B	2.2504		2.7061		2.2933	2.2933	MG/KG	92		112		18		75 - 125	20	MS
Silver	107	0.0865	B	11.7303		14.9409		11.4666	11.4666	MG/KG	102		130	N	24	*	75 - 125	20	MS
Sodium		185.8422		1307.0611		1284.5557		1146.6575	1135.5249	MG/KG	98		97		2		75 - 125	20	P
Strontium		36.3089		155.3847		156.1926		114.6657	113.5525	MG/KG	104		106		1		75 - 115	20	P
Thallium	203	0.5486		0.8348		1.1811		0.4587	0.4587	MG/KG	62	N	138	N	34	*	75 - 125	20	MS
Tin		3.3459	B	430.1032		421.6851		458.6630	454.2100	MG/KG	93		92		2		80 - 110	20	P
Titanium		1270.0022		1471.3359		1588.8287		113.5525	113.5525	MG/KG	177		281		8			20	P
Vanadium	51	80.5642		68.5701		100.2408		11.4666	11.4666	MG/KG	-105		172		38	*		20	MS
Zinc	66	108.7261		87.6505		140.5573		11.4666	11.4666	MG/KG	-184		278		46	*		20	MS
Zirconium		4.3298	B	119.7305		118.7203		114.6657	113.5525	MG/KG	101		101		1		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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

hi post spike 65% U/R.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE186
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6325681BKG
% Solids for Duplicate: 86.4
Batch ID(s): P17908A, P17426A, P17411B, P18608B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6325684DUP
% Solids for Sample: 85.5

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			36470.9288		35238.9599		3		P
Antimony	121	0.2	0.2293		0.1783	B	25		MS
Arsenic	75		12.2669		7.4218		49	*	MS
Barium	137		229.2742		170.9873		29	*	MS
Beryllium	9		1.2843		0.9493		30	*	MS
Boron		5.7	17.8489		16.4583		8		P
Cadmium	111	0.1	0.5059		0.3043		50	*	MS
Calcium			6820.6513		6534.2963		4		P
Chromium	52		46.9900		31.0907		41	*	MS
Cobalt	59		18.4749		11.0759		50	*	MS
Copper	63		23.2083		16.1631		36	*	MS
Iron			38414.9295		36064.2253		6		P
Lead	208		15.8583		10.6830		39	*	MS
Lithium			31.3370		30.0687		4		P
Magnesium			8053.2462		7830.8079		3		P
Manganese			442.8426		506.3442		13		P
Mercury			0.0104	B	0.0096	B	8		CV
Molybdenum	98	0.1	0.8309		0.4390		~~52~~	*	MS
Nickel	60		42.4722		28.2291		40	*	MS
Phosphorus			324.9455		320.3418		1		P
Potassium			3900.8451		3954.5336		1		P
Selenium	78		0.1438	B	0.0876	B	49		MS
Silver	107		0.0865	B	0.0735	B	16		MS
Sodium		114.7	185.8422		178.1639		4		P
Strontium			36.3089		35.4125		2		P
Thallium	203	0.1	0.5486		0.3795		36	*	MS
Tin			3.3459	B	2.6503	B	23		P
Titanium			1270.0022		1085.4257		16		P
Vanadium	51		80.5642		48.9865		49	*	MS
Zinc	66		108.7261		75.6714		36	*	MS
Zirconium			4.3298	B	4.8782	B	12		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

Mo difference 0.3919 (≤ 0.730)

DE186, 4492

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE186
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6325681BKG Serial Dilution Lab Sample ID: 6325681L
Batch ID(s): P17908A, P17426A, P18608B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		318062.9700		308605.5500		3		P
Antimony	121	1.0000		1.8500	U	100		MS
Arsenic	75	53.4900		46.7800		13	E	MS
Barium	137	399.9000		344.2500		14	E	MS
Beryllium	9	5.6000		5.3850		4		MS
Boron		155.6600		204.8000	B	32		P
Cadmium	111	2.2060		1.9505	B	12		MS
Calcium		59482.9000		60972.8500		3		P
Chromium	52	204.9000		209.3500		2		MS
Cobalt	59	80.5600		71.8000		11	E	MS
Copper	63	101.2000		92.3000		9		MS
Iron		67003.3200		66134.6000		1		P
Lead	208	69.1500		59.4500		14	E	MS
Lithium		273.2900		286.9500		5		P
Magnesium		70232.3600		71619.2500		2		P
Manganese		3862.0300		4117.8500		7		P
Molybdenum	98	3.6230		3.6775		2		MS
Nickel	60	185.2000		160.1000		14	E	MS
Phosphorus		2833.8500		2850.2500		1		P
Potassium		34019.2700		34633.2000		2		P
Selenium	78	0.6271	B	1.4500	U	100		MS
Silver	107	0.3770	B	0.5125	B	36		MS
Sodium		1620.7300		1456.1000	B	10		P
Strontium		316.6500		330.1000		4		P
Thallium	203	2.3920		1.7835	B	25		MS
Tin		29.1800	B	28.0000	B	4		P
Titanium		11292.8600		11575.2000		3		P
Vanadium	51	351.3000		354.4000		1		MS
Zinc	66	474.1000		429.5000		9		MS
Zirconium		37.7600	B	23.0000	U	100		P

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

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

CONCENTRATION QUALIFIERS: DE186, 2495
U= Below MDL
B= Below LOQ

FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE187

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Jun-2011	TB-062311	6327213	TB	5030B	8015M	III
23-Jun-2011	TB-062311	6327213	TB	5030B	8260B	III
23-Jun-2011	TB-062311	6327213	TB	5030B	8260B SIM	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	3050B	6010B	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	3050B	6020	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	3060A	7199	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	3546	1625C	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	3550B	8082	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	3550B	8270C	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	3550B	8270C SIM	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	5035	8260B	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	5035	8260B SIM	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	METHOD	300.0	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	METHOD	314.0	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	METHOD	6850	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0	6327203	N	METHOD	7471A	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0DU	P327203D270004A	DUP	METHOD	314.0	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0DU	P327203D270541A	DUP	METHOD	300.0	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0MS	P327203R270027A	MS	METHOD	314.0	III
23-Jun-2011	SL-100-SA5DN-SB-3.0-4.0MS	P327203R270556A	MS	METHOD	300.0	III
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	3050B	6010B	III
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	3050B	6020	III
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	3060A	7199	III
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	3550B	8082	III
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	3550B	8270C	III
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	5035	8260B	III
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	5035	8260B SIM	III
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	METHOD	300.0	III
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	METHOD	314.0	III
23-Jun-2011	SL-101-SA5DN-SB-2.5-3.5	6327204	N	METHOD	7471A	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	3050B	6010B	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	3050B	6020	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	3060A	7199	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	3546	1625C	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	3550B	8015B	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	3550B	8015M	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	3550B	8082	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	3550B	8270C	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	3550B	8270C SIM	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	5035	8015M	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	5035	8260B	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	5035	8260B SIM	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	8330	8330A	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	METHOD	300.0	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	METHOD	314.0	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	METHOD	7471A	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	METHOD	8015B	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	METHOD	8015M	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	METHOD	8315A	III
23-Jun-2011	SL-110-SA5DN-SB-4.0-5.0	6327212	N	METHOD	9012B	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	3050B	6020	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	3060A	7199	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	3546	1625C	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	3550B	8015B	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	3550B	8015M	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	3550B	8082	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	3550B	8270C	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	3550B	8270C SIM	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	5035	8015M	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	5035	8260B	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	5035	8260B SIM	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	8330	8330A	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	METHOD	300.0	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	METHOD	314.0	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	METHOD	7471A	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	METHOD	8015B	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	METHOD	8015M	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	METHOD	8315A	III
23-Jun-2011	SL-109-SA5DN-SB-3.5-4.5	6327211	N	METHOD	9012B	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	3050B	6010B	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	3050B	6020	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	3060A	7199	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	3546	1625C	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	3550B	8015B	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	3550B	8015M	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	3550B	8270C	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	3550B	8270C SIM	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	5035	8015M	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	5035	8260B	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	5035	8260B SIM	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	8330	8330A	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	METHOD	300.0	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	METHOD	314.0	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	METHOD	7471A	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	METHOD	8015B	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	METHOD	8015M	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	METHOD	8315A	III
23-Jun-2011	SL-107-SA5DN-SB-3.5-4.5	6327210	N	METHOD	9012B	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	3050B	6010B	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	3050B	6020	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	3060A	7199	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	3546	1625C	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	3550B	8015B	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	3550B	8015M	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	3550B	8082	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	3550B	8270C	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	3550B	8270C SIM	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	5035	8015M	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	5035	8260B	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	5035	8260B SIM	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	8330	8330A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	METHOD	300.0	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	METHOD	314.0	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	METHOD	7471A	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	METHOD	8015B	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	METHOD	8015M	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	METHOD	8315A	III
23-Jun-2011	SL-106-SA5DN-SB-4.0-5.0	6327208	N	METHOD	9012B	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	3050B	6010B	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	3050B	6020	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	3060A	7199	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	3546	1625C	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	3550B	8015B	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	3550B	8015M	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	3550B	8082	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	3550B	8270C	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	3550B	8270C SIM	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	5035	8015M	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	5035	8260B	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	5035	8260B SIM	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	8330	8330A	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	METHOD	300.0	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	METHOD	314.0	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	METHOD	7471A	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	METHOD	8015B	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	METHOD	8015M	III
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	METHOD	8315A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Jun-2011	SL-106-SA5DN-SB-9.0-10.0	6327209	N	METHOD	9012B	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	3050B	6010B	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	3050B	6020	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	3060A	7199	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	3546	1625C	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	3550B	8015B	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	3550B	8015M	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	3550B	8082	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	3550B	8270C	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	3550B	8270C SIM	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	5035	8015M	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	5035	8260B	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	5035	8260B SIM	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	8330	8330A	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	METHOD	300.0	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	METHOD	314.0	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	METHOD	7471A	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	METHOD	8015B	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	METHOD	8015M	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	METHOD	8315A	III
23-Jun-2011	SL-104-SA5DN-SB-4.0-5.0	6327206	N	METHOD	9012B	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	3050B	6010B	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	3050B	6020	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	3060A	7199	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	3546	1625C	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	3550B	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	3550B	8015M	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	3550B	8082	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	3550B	8270C	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	3550B	8270C SIM	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	5035	8015M	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	5035	8260B	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	5035	8260B SIM	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	8330	8330A	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	METHOD	300.0	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	METHOD	314.0	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	METHOD	7471A	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	METHOD	8015B	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	METHOD	8015M	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	METHOD	8315A	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0	6327205	N	METHOD	9012B	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0MS	P327205R240050A	MS	METHOD	8315A	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0MS	P327205R240219A	MS	8330	8330A	III
23-Jun-2011	SL-102-SA5DN-SB-4.0-5.0MS	P327205R320222A	MS	3550B	8015M	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	3050B	6010B	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	3050B	6020	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	3060A	7199	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	3546	1625C	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	3550B	8015B	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	3550B	8015M	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	3550B	8082	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	3550B	8270C SIM	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	5035	8015M	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	5035	8260B	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	5035	8260B SIM	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	8330	8330A	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	METHOD	300.0	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	METHOD	314.0	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	METHOD	7471A	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	METHOD	8015B	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	METHOD	8015M	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	METHOD	8315A	III
23-Jun-2011	SL-105-SA5DN-SB-4.0-5.0	6327207	N	METHOD	9012B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-100-SA5DN-SB-3.0-4.0 **Collected:** 6/23/2011 8:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.8		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-101-SA5DN-SB-2.5-3.5 **Collected:** 6/23/2011 9:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-102-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 2:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.85	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 2:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.90	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.90	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 3:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 11:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-106-SA5DN-SB-9.0-10.0 **Collected:** 6/23/2011 11:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.2	J	0.89	MDL	1.7	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.2		0.88	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.1	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.87	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.4	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-100-SA5DN-SB-3.0-4.0 *Collected:* 6/23/2011 8:30:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.71	J	0.359	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-100-SA5DN-SB-3.0-4.0 *Collected:* 6/23/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.88	J	0.516	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SL-101-SA5DN-SB-2.5-3.5 *Collected:* 6/23/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	96.9	J	6.09	MDL	102	PQL	mg/Kg	J	Z
TIN	3.11	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	4.48	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-102-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.42	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	5.04	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.67	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-105-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.48	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.51	J	0.502	MDL	5.46	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.48	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-106-SA5DN-SB-9.0-10.0 *Collected:* 6/23/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.59	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.78	J	0.500	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.54	J	0.344	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-109-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.60	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	4.52	J	0.469	MDL	5.10	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.82	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	4.45	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-100-SA5DN-SB-3.0-4.0 *Collected:* 6/23/2011 8:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.123	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-100-SA5DN-SB-3.0-4.0 *Collected:* 6/23/2011 8:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.329		0.0807	MDL	0.218	PQL	mg/Kg	U	B
SILVER	0.0955	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-101-SA5DN-SB-2.5-3.5 *Collected:* 6/23/2011 9:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0594	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-101-SA5DN-SB-2.5-3.5 *Collected:* 6/23/2011 9:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.208		0.0757	MDL	0.205	PQL	mg/Kg	U	B
SILVER	0.0426	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-102-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE187 Laboratory: LL

EDD Filename: DE187_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-102-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 2:55:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.230		0.0759	MDL	0.205	PQL	mg/Kg	U	B
SILVER	0.0333	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 2:25:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0805	J	0.0638	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 2:25:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.294		0.0814	MDL	0.220	PQL	mg/Kg	U	B
SILVER	0.0954	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 3:30:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 3:30:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.333		0.0784	MDL	0.212	PQL	mg/Kg	U	B
SILVER	0.0519	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 11:50:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0789	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 11:50:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.254		0.0806	MDL	0.218	PQL	mg/Kg	U	B
SILVER	0.0608	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-106-SA5DN-SB-9.0-10.0 *Collected:* 6/23/2011 11:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.177	J	0.0812	MDL	0.219	PQL	mg/Kg	U	B
SILVER	0.0918	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 11:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.228		0.0795	MDL	0.215	PQL	mg/Kg	U	B

Sample ID: SL-109-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 10:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0591	MDL	0.408	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 10:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0755	MDL	0.204	PQL	mg/Kg	U	B
CADMIUM	0.0715	J	0.0449	MDL	0.102	PQL	mg/Kg	J	Z
SILVER	0.0703	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0846	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.233		0.0785	MDL	0.212	PQL	mg/Kg	U	B
SILVER	0.0851	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-100-SA5DN-SB-3.0-4.0 *Collected:* 6/23/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.65	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.73	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.42	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-104-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0129	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-9.0-10.0 *Collected:* 6/23/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0121	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0189	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0814	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: SL-102-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:55:00 *Analysis Type:* REA *Dilution:* 1

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

Sample ID: SL-102-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:55:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.86	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-104-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:25:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.70	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-105-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 3:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.99	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 11:50:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.74	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-106-SA5DN-SB-9.0-10.0 *Collected:* 6/23/2011 11:55:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.76	J	0.45	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 11:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.50	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-109-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 10:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.62	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.74	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

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

Sample ID: SL-100-SA5DN-SB-3.0-4.0 *Collected:* 6/23/2011 8:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.50	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.3	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.8	MDL	20	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	1.0	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.7	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-101-SA5DN-SB-2.5-3.5 *Collected:* 6/23/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.5	J	6.2	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-102-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 2:55:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.45	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	6.4	J	6.4	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.53	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-104-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 2:25:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-105-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 3:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.76	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-4.0-5.0 **Collected:** 6/23/2011 11:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.0	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.0	J	6.7	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.44	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-106-SA5DN-SB-9.0-10.0 **Collected:** 6/23/2011 11:55:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.3	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-109-SA5DN-SB-3.5-4.5 **Collected:** 6/23/2011 10:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.7	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-100-SA5DN-SB-3.0-4.0 ***Collected:*** 6/23/2011 8:30:00 ***Analysis Type:*** RES ***Dilution:*** 0.81

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.4	J	0.22	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-101-SA5DN-SB-2.5-3.5 ***Collected:*** 6/23/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.8	J	0.24	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-102-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 2:55:00 ***Analysis Type:*** RES ***Dilution:*** 0.96

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	3.1	J	0.24	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-104-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 2:25:00 ***Analysis Type:*** RES ***Dilution:*** 0.85

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.9	J	0.23	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-105-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 3:30:00 ***Analysis Type:*** RES ***Dilution:*** 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	7.3	J	6.5	MDL	7.8	PQL	ug/Kg	J	Z
METHYLENE CHLORIDE	1.7	J	0.23	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-106-SA5DN-SB-4.0-5.0 ***Collected:*** 6/23/2011 11:50:00 ***Analysis Type:*** RES ***Dilution:*** 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.5	J	0.22	MDL	3.7	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-106-SA5DN-SB-9.0-10.0 ***Collected:*** 6/23/2011 11:55:00 ***Analysis Type:*** RES ***Dilution:*** 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.5	J	0.25	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory:** LL

EDD Filename: DE187_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 11:15:00 *Analysis Type:* RES *Dilution:* 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.9	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-109-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 10:10:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	7.2		0.22	MDL	3.7	PQL	ug/Kg	U	B
TOLUENE	0.07	J	0.07	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: SL-110-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 9:40:00 *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.3	J	0.22	MDL	3.7	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE187

Method Blank Outlier Report

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17908BB221219	7/7/2011 12:19:00 PM	TIN	1.71 mg/Kg	SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0
P17908BB222208	7/4/2011 10:08:00 PM	ALUMINUM BORON CALCIUM IRON LITHIUM PHOSPHORUS STRONTIUM	7.61 mg/Kg 0.614 mg/Kg 9.04 mg/Kg 4.88 mg/Kg 1.5 mg/Kg 1.60 mg/Kg 0.0620 mg/Kg	SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-100-SA5DN-SB-3.0-4.0(REA)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	TIN	3.42 mg/Kg	3.42U mg/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	TIN	3.87 mg/Kg	3.67U mg/Kg
SL-105-SA5DN-SB-4.0-5.0(RES)	TIN	3.48 mg/Kg	3.48U mg/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	TIN	3.48 mg/Kg	3.48U mg/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	TIN	3.59 mg/Kg	3.59U mg/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	TIN	3.54 mg/Kg	3.54U mg/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	TIN	3.60 mg/Kg	3.60U mg/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	TIN	3.82 mg/Kg	3.82U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17926AB221719A	6/29/2011 5:19:00 PM	ANTIMONY VANADIUM	0.178 mg/Kg 0.0772 mg/Kg	SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-100-SA5DN-SB-3.0-4.0(RES)	ANTIMONY	0.329 mg/Kg	0.329U mg/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-101-SA5DN-SB-2.5-3.5(RES)	ANTIMONY	0.208 mg/Kg	0.208U mg/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.230 mg/Kg	0.230U mg/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.294 mg/Kg	0.294U mg/Kg
SL-105-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.333 mg/Kg	0.333U mg/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.254 mg/Kg	0.254U mg/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.177 mg/Kg	0.177U mg/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	ANTIMONY	0.228 mg/Kg	0.228U mg/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	ANTIMONY	0.115 mg/Kg	0.115U mg/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.233 mg/Kg	0.233U mg/Kg

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB01B211216A	6/28/2011 12:16:00 PM	METHYLENE CHLORIDE TOLUENE	1.4 ug/Kg 0.08 ug/Kg	SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-100-SA5DN-SB-3.0-4.0(RES)	METHYLENE CHLORIDE	1.4 ug/Kg	3.7U ug/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	1.8 ug/Kg	3.9U ug/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	TOLUENE	0.09 ug/Kg	3.9U ug/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.1 ug/Kg	4.1U ug/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.9 ug/Kg	3.8U ug/Kg
SL-105-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	3.9U ug/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.5 ug/Kg	3.7U ug/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.14 ug/Kg	3.7U ug/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	4.1U ug/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	METHYLENE CHLORIDE	1.9 ug/Kg	4.1U ug/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	TOLUENE	0.11 ug/Kg	4.1U ug/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	METHYLENE CHLORIDE	7.2 ug/Kg	7.2U ug/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	TOLUENE	0.07 ug/Kg	3.7U ug/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.3 ug/Kg	3.7U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-102-SA5DN-SB-4.0-5.0MS SL-102-SA5DN-SB-4.0-5.0MSD (SL-102-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	23 58	28 -	59.00-109.00 63.00-107.00	- -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-100-SA5DN-SB-3.0-4.0MS (SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-100-SA5DN-SB-3.0-4.0DUP (SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0)	FLUORIDE	26	20.00	No Qual, OK by Difference

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE187 Laboratory: LL

EDD Filename: DE187_v1 eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11769AY241944A (SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0)	Aroclor 5442	-	111	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P17926AQ221722A (SL-100-SA5DN-SB-3.0-4.0 SL-101-SA5DN-SB-2.5-3.5 SL-102-SA5DN-SB-4.0-5.0 SL-104-SA5DN-SB-4.0-5.0 SL-105-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-4.0-5.0 SL-106-SA5DN-SB-9.0-10.0 SL-107-SA5DN-SB-3.5-4.5 SL-109-SA5DN-SB-3.5-4.5 SL-110-SA5DN-SB-4.0-5.0)	ANTIMONY	131	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)
SL-104-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.2	1.7	PQL	mg/Kg	J (all detects)
SL-107-SA5DN-SB-3.5-4.5	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)
SL-109-SA5DN-SB-3.5-4.5	Nitrate-NO3	J	1.1	1.6	PQL	mg/Kg	J (all detects)
SL-110-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.4	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	TIN	J	2.71	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.88	5.61	PQL	mg/Kg	
SL-101-SA5DN-SB-2.5-3.5	SODIUM	J	96.9	102	PQL	mg/Kg	J (all detects)
	TIN	J	3.11	10.2	PQL	mg/Kg	
	Zirconium	J	4.48	5.12	PQL	mg/Kg	
SL-102-SA5DN-SB-4.0-5.0	TIN	J	3.42	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.04	5.23	PQL	mg/Kg	
SL-104-SA5DN-SB-4.0-5.0	TIN	J	3.67	10.8	PQL	mg/Kg	J (all detects)
SL-105-SA5DN-SB-4.0-5.0	TIN	J	3.48	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.51	5.46	PQL	mg/Kg	
SL-106-SA5DN-SB-4.0-5.0	TIN	J	3.48	10.8	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	TIN	J	3.59	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.78	5.43	PQL	mg/Kg	
SL-107-SA5DN-SB-3.5-4.5	TIN	J	3.54	10.7	PQL	mg/Kg	J (all detects)
SL-109-SA5DN-SB-3.5-4.5	TIN	J	3.60	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.52	5.10	PQL	mg/Kg	
SL-110-SA5DN-SB-4.0-5.0	TIN	J	3.82	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.45	5.25	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	SELENIUM	J	0.123	0.436	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0955	0.109	PQL	mg/Kg	
SL-101-SA5DN-SB-2.5-3.5	SELENIUM	J	0.119	0.409	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0426	0.102	PQL	mg/Kg	
SL-102-SA5DN-SB-4.0-5.0	SELENIUM	J	0.144	0.410	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0333	0.103	PQL	mg/Kg	
SL-104-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0805	0.440	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0954	0.110	PQL	mg/Kg	
SL-105-SA5DN-SB-4.0-5.0	SELENIUM	J	0.146	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0519	0.106	PQL	mg/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-106-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0789	0.436	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0608	0.109	PQL	mg/Kg	
SL-106-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.177	0.219	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0918	0.110	PQL	mg/Kg	
SL-109-SA5DN-SB-3.5-4.5	ANTIMONY	J	0.115	0.204	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0715	0.102	PQL	mg/Kg	
	SELENIUM	J	0.114	0.408	PQL	mg/Kg	
	SILVER	J	0.0703	0.102	PQL	mg/Kg	
SL-110-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0846	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0851	0.106	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-105-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.77	1.1	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.73	1.1	PQL	mg/Kg	J (all detects)
SL-107-SA5DN-SB-3.5-4.5	HEXAVALENT CHROMIUM	J	0.67	1.1	PQL	mg/Kg	J (all detects)
SL-110-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-104-SA5DN-SB-4.0-5.0	MERCURY	J	0.0129	0.112	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	MERCURY	J	0.0121	0.106	PQL	mg/Kg	J (all detects)
SL-107-SA5DN-SB-3.5-4.5	MERCURY	J	0.0189	0.109	PQL	mg/Kg	J (all detects)
SL-110-SA5DN-SB-4.0-5.0	MERCURY	J	0.0814	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.86	1.3	PQL	mg/Kg	J (all detects)
SL-104-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.70	1.3	PQL	mg/Kg	J (all detects)
SL-105-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.99	1.3	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.74	1.3	PQL	mg/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	EFH (C30-C40)	J	0.76	1.3	PQL	mg/Kg	J (all detects)
SL-107-SA5DN-SB-3.5-4.5	EFH (C30-C40)	J	0.50	1.3	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA5DN-SB-3.5-4.5	EFH (C30-C40)	J	0.62	1.3	PQL	mg/Kg	J (all detects)
SL-110-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.74	1.3	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	METHYLENE CHLORIDE	J	1.4	3.7	PQL	ug/Kg	J (all detects)
SL-101-SA5DN-SB-2.5-3.5	METHYLENE CHLORIDE TOLUENE	J J	1.8 0.09	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-102-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	3.1	4.1	PQL	ug/Kg	J (all detects)
SL-104-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.9	3.8	PQL	ug/Kg	J (all detects)
SL-105-SA5DN-SB-4.0-5.0	ACETONE METHYLENE CHLORIDE	J J	7.3 1.7	7.8 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-106-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	2.5 0.14	3.7 3.7	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	METHYLENE CHLORIDE	J	1.5	4.1	PQL	ug/Kg	J (all detects)
SL-107-SA5DN-SB-3.5-4.5	METHYLENE CHLORIDE TOLUENE	J J	1.9 0.11	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-109-SA5DN-SB-3.5-4.5	TOLUENE	J	0.07	3.7	PQL	ug/Kg	J (all detects)
SL-110-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	1.3	3.7	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	ACENAPHTHYLENE ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALATE DIBENZO(A,H)ANTHRACENE FLUORENE PHENANTHRENE	J J J J J J	0.50 1.3 12 1.4 1.0 1.7	1.9 1.9 20 1.9 1.9 1.9	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-101-SA5DN-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.5	19	PQL	ug/Kg	J (all detects)
SL-102-SA5DN-SB-4.0-5.0	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALATE CHRYSENE	J J J	0.45 6.4 0.53	1.8 19 1.8	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-104-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	20	PQL	ug/Kg	J (all detects)
SL-105-SA5DN-SB-4.0-5.0	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALATE	J J	0.76 8.9	1.8 20	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-106-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALATE CHRYSENE	J J J	1.0 7.0 0.44	1.9 20 1.9	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-106-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	7.5 8.3	20 20	PQL PQL	ug/Kg ug/Kg	J (all detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE187 **Laboratory: LL**

EDD Filename: DE187_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-109-SA5DN-SB-3.5-4.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.7	19	PQL	ug/Kg	J (all detects)

LDC #: 26277R4 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/30/11
SDG #: DE187 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No final
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	client specified
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	NA	Lcs
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-100-SA5DN-SB-3.0-4.0	11		21		31	
2	SL-101-SA5DN-SB-2.5-3.5	12		22		32	
3	SL-102-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-104-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-105-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-106-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-106-SA5DN-SB-9.0-10.0	17		27		37	
8	SL-107-SA5DN-SB-3.5-4.5	18		28		38	
9	SL-109-SA5DN-SB-3.5-4.5	19		29		39	
10	SL-110-SA5DN-SB-4.0-5.0	20		30		40	

Notes: Acc from 87188

SAMPLE DELIVERY GROUP

DE188

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Jun-2011	TB-062411	6328456	TB	5030B	8015M	III
24-Jun-2011	TB-062411	6328456	TB	5030B	8260B	III
24-Jun-2011	TB-062411	6328456	TB	5030B	8260B SIM	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3050B	6010B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3050B	6020	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3060A	7199	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3546	1625C	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3550B	8015B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3550B	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3550B	8082	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3550B	8270C	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	3550B	8270C SIM	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	5035	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	5035	8260B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	5035	8260B SIM	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	8330	8330A	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	300.0	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	314.0	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	7471A	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	8015B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	8315A	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0	6328454	N	METHOD	9012B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0DU	P328454D272017B	DUP	METHOD	9012B	III
24-Jun-2011	SL-103-SA5DN-SB-7.0-8.0MS	P328454R272018B	MS	METHOD	9012B	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3050B	6020	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3060A	7199	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3546	1625C	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3550B	8015B	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3550B	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3550B	8082	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3550B	8270C	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	3550B	8270C SIM	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	5035	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	5035	8260B	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	5035	8260B SIM	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	8330	8330A	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	300.0	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	314.0	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	7471A	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	8015B	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	8315A	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0	6328453	N	METHOD	9012B	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0MS	P328453R320425A	MS	3550B	8015M	III
24-Jun-2011	SL-103-SA5DN-SB-4.0-5.0MS	P328453R321902A	MS	METHOD	8015B	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3050B	6010B	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3050B	6020	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3060A	7199	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3550B	8082	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	3550B	8270C SIM	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	METHOD	300.0	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	METHOD	314.0	III
24-Jun-2011	SL-092-SA5DN-SB-7.0-8.0	6328451	N	METHOD	7471A	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3050B	6010B	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3050B	6020	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3060A	7199	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3550B	8082	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3550B	8270C	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	3550B	8270C SIM	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	5035	8260B	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	5035	8260B SIM	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	METHOD	300.0	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	METHOD	314.0	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	METHOD	6850	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0	6328447	N	METHOD	7471A	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3050B	6010B	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3050B	6020	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3060A	7199	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3550B	8082	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3550B	8270C	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	3550B	8270C SIM	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	5035	8260B	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	5035	8260B SIM	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	METHOD	300.0	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	METHOD	6850	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328448	MS	METHOD	7471A	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	3050B	6010B	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	3050B	6020	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	3060A	7199	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	METHOD	300.0	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	METHOD	314.0	III
24-Jun-2011	SL-092-SA5DN-SB-4.0-5.0DU	6328450	DUP	METHOD	7471A	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3050B	6010B	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3050B	6020	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3060A	7199	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3550B	8082	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3550B	8270C	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	3550B	8270C SIM	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	5035	8260B	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	5035	8260B SIM	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	METHOD	300.0	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	METHOD	314.0	III
24-Jun-2011	DUP17-SA5DN-QC-062411	6328455	FD	METHOD	7471A	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3050B	6010B	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3050B	6020	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3060A	7199	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3550B	8082	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3550B	8270C	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	3550B	8270C SIM	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	5035	8260B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	5035	8260B SIM	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	METHOD	300.0	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	METHOD	314.0	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	METHOD	6850	III
24-Jun-2011	SL-122-SA5DN-SB-4.0-5.0	6328452	N	METHOD	7471A	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3050B	6010B	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3050B	6020	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3060A	7199	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3550B	8082	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3550B	8270C	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	3550B	8270C SIM	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	5035	8260B	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	5035	8260B SIM	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	METHOD	300.0	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	METHOD	314.0	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	METHOD	6850	III
24-Jun-2011	SL-091-SA5DN-SB-4.0-5.0	6328446	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP17-SA5DN-QC-062411 **Collected:** 6/24/2011 10:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-091-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 12:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.96	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-092-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 10:18:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.92	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-092-SA5DN-SB-7.0-8.0 **Collected:** 6/24/2011 10:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.2		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-103-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 9:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.3	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-7.0-8.0 **Collected:** 6/24/2011 9:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.5	J	0.94	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 11:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.90	MDL	1.1	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory:** LL

EDD Filename: PrepDE188 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 10:25:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	44000		15.4	MDL	118	PQL	mg/Kg	J	A

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 10:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4050		13.3	MDL	58.9	PQL	mg/Kg	J	Q
TIN	3.99	J	0.377	MDL	11.8	PQL	mg/Kg	U	B

Sample ID: SL-091-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 12:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	28600		3.00	MDL	23.0	PQL	mg/Kg	J	A
POTASSIUM	3230		13.0	MDL	57.5	PQL	mg/Kg	J	Q
SODIUM	105	J	6.84	MDL	115	PQL	mg/Kg	J	Z
TIN	3.79	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	5.63	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 10:18:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.47	J	0.357	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-092-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 10:18:00 ***Analysis Type:*** REA2 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	33800		14.6	MDL	112	PQL	mg/Kg	J	A

Sample ID: SL-092-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 10:18:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3830		12.6	MDL	55.8	PQL	mg/Kg	J	Q

Sample ID: SL-092-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 10:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	26600		2.98	MDL	22.8	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **SL-092-SA5DN-SB-7.0-8.0** ***Collected:*** **6/24/2011 10:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3100		12.9	MDL	57.0	PQL	mg/Kg	J	Q
TIN	3.73	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	5.50	J	0.525	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: **SL-103-SA5DN-SB-4.0-5.0** ***Collected:*** **6/24/2011 9:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	25600		2.81	MDL	21.5	PQL	mg/Kg	J	A
POTASSIUM	2950		12.1	MDL	53.7	PQL	mg/Kg	J	Q
TIN	3.47	J	0.344	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: **SL-103-SA5DN-SB-7.0-8.0** ***Collected:*** **6/24/2011 9:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20000		2.98	MDL	22.8	PQL	mg/Kg	J	A
POTASSIUM	2420		12.9	MDL	57.0	PQL	mg/Kg	J	Q
TIN	3.35	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	2.49	J	0.525	MDL	5.70	PQL	mg/Kg	U	B

Sample ID: **SL-122-SA5DN-SB-4.0-5.0** ***Collected:*** **6/24/2011 11:40:00** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	36700		14.7	MDL	113	PQL	mg/Kg	J	A

Sample ID: **SL-122-SA5DN-SB-4.0-5.0** ***Collected:*** **6/24/2011 11:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3520		12.7	MDL	56.4	PQL	mg/Kg	J	Q
TIN	3.88	J	0.361	MDL	11.3	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 10:25:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0799	J	0.0670	MDL	0.462	PQL	mg/Kg	J	Z, Q, FD

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 10:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.436		0.0577	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 10:25:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	178		0.122	MDL	0.462	PQL	mg/Kg	J	A

Sample ID: DUP17-SA5DN-QC-062411 ***Collected:*** 6/24/2011 10:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.280		0.0855	MDL	0.231	PQL	mg/Kg	UJ	E, B
ARSENIC	7.82		0.0924	MDL	0.462	PQL	mg/Kg	J	E, A
BERYLLIUM	1.08		0.0185	MDL	0.115	PQL	mg/Kg	J	Q, E
CADMIUM	0.318		0.0508	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	34.3		0.139	MDL	0.462	PQL	mg/Kg	J	Q, E
COBALT	12.6		0.0231	MDL	0.115	PQL	mg/Kg	J	Q, E, A
COPPER	20.3		0.0924	MDL	0.462	PQL	mg/Kg	J	Q, E, A
LEAD	12.9		0.0118	MDL	0.231	PQL	mg/Kg	J	E, A
NICKEL	28.2		0.115	MDL	0.462	PQL	mg/Kg	J	Q, E, A
SILVER	0.0374	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.369		0.0346	MDL	0.115	PQL	mg/Kg	J	Q
VANADIUM	57.4		0.0254	MDL	0.115	PQL	mg/Kg	J	E
ZINC	85.2		0.647	MDL	3.46	PQL	mg/Kg	J	E, A

Sample ID: SL-091-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 12:35:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.125	J	0.0885	MDL	0.239	PQL	mg/Kg	U	B
SILVER	0.0768	J	0.0170	MDL	0.120	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-091-SA5DN-SB-4.0-5.0 **Collected: 6/24/2011 12:35:00** **Analysis Type: REA5** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0694	MDL	0.478	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5DN-SB-4.0-5.0 **Collected: 6/24/2011 10:18:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.150	J	0.0647	MDL	0.446	PQL	mg/Kg	J	Z, Q, FD

Sample ID: SL-092-SA5DN-SB-4.0-5.0 **Collected: 6/24/2011 10:18:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.518		0.0558	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-092-SA5DN-SB-4.0-5.0 **Collected: 6/24/2011 10:18:00** **Analysis Type: REA3** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	182		0.118	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: SL-092-SA5DN-SB-4.0-5.0 **Collected: 6/24/2011 10:18:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.460		0.0826	MDL	0.223	PQL	mg/Kg	UJ	E, B
ARSENIC	10.1		0.0893	MDL	0.446	PQL	mg/Kg	J	E, A
BERYLLIUM	1.28		0.0179	MDL	0.112	PQL	mg/Kg	J	Q, E
CADMIUM	0.370		0.0491	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	42.5		0.134	MDL	0.446	PQL	mg/Kg	J	Q, E
COBALT	16.7		0.0223	MDL	0.112	PQL	mg/Kg	J	Q, E, A
COPPER	23.7		0.0893	MDL	0.446	PQL	mg/Kg	J	Q, E, A
LEAD	13.7		0.0114	MDL	0.223	PQL	mg/Kg	J	E, A
NICKEL	31.7		0.112	MDL	0.446	PQL	mg/Kg	J	Q, E, A
SILVER	0.0675	J	0.0158	MDL	0.112	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.423		0.0335	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	77.2		0.0246	MDL	0.112	PQL	mg/Kg	J	E
ZINC	99.0		0.625	MDL	3.35	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: SL-092-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 10:10:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.297		0.0570	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-092-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 10:10:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	120		0.121	MDL	0.456	PQL	mg/Kg	J	A

Sample ID: SL-092-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 10:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.255		0.0844	MDL	0.228	PQL	mg/Kg	UJ	E, B
ARSENIC	5.92		0.0913	MDL	0.456	PQL	mg/Kg	J	E, A
BERYLLIUM	0.705		0.0183	MDL	0.114	PQL	mg/Kg	J	Q, E
CADMIUM	0.368		0.0502	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	26.9		0.137	MDL	0.456	PQL	mg/Kg	J	Q, E
COBALT	9.04		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E, A
COPPER	13.4		0.0913	MDL	0.456	PQL	mg/Kg	J	Q, E, A
LEAD	8.37		0.0116	MDL	0.228	PQL	mg/Kg	J	E, A
NICKEL	18.8		0.114	MDL	0.456	PQL	mg/Kg	J	Q, E, A
SILVER	0.0480	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.304		0.0342	MDL	0.114	PQL	mg/Kg	J	Q
VANADIUM	50.5		0.0251	MDL	0.114	PQL	mg/Kg	J	E
ZINC	58.7		0.639	MDL	3.42	PQL	mg/Kg	J	E, A

Sample ID: SL-103-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 9:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0623	MDL	0.430	PQL	mg/Kg	J	Z, Q

Sample ID: SL-103-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 9:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.36		0.0537	MDL	0.107	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory:** LL

EDD Filename: PrepDE188 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-103-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 9:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	142		0.114	MDL	0.430	PQL	mg/Kg	J	A

Sample ID: SL-103-SA5DN-SB-4.0-5.0 ***Collected:*** 6/24/2011 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.322		0.0795	MDL	0.215	PQL	mg/Kg	UJ	E, B
ARSENIC	9.53		0.0860	MDL	0.430	PQL	mg/Kg	J	E, A
BERYLLIUM	0.905		0.0172	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.423		0.0473	MDL	0.107	PQL	mg/Kg	J	Q
CHROMIUM	35.5		0.129	MDL	0.430	PQL	mg/Kg	J	Q, E
COBALT	9.23		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E, A
COPPER	20.7		0.0860	MDL	0.430	PQL	mg/Kg	J	Q, E, A
LEAD	12.8		0.0110	MDL	0.215	PQL	mg/Kg	J	E, A
NICKEL	23.0		0.107	MDL	0.430	PQL	mg/Kg	J	Q, E, A
SILVER	0.0729	J	0.0153	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.316		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
VANADIUM	54.7		0.0236	MDL	0.107	PQL	mg/Kg	J	E
ZINC	76.6		0.602	MDL	3.22	PQL	mg/Kg	J	E, A

Sample ID: SL-103-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 9:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.456		0.0576	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 9:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	71.1		0.122	MDL	0.461	PQL	mg/Kg	J	A

Sample ID: SL-103-SA5DN-SB-7.0-8.0 ***Collected:*** 6/24/2011 9:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.147	J	0.0853	MDL	0.230	PQL	mg/Kg	UJ	E, B
ARSENIC	5.75		0.0922	MDL	0.461	PQL	mg/Kg	J	E, A
BERYLLIUM	0.580		0.0184	MDL	0.115	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-103-SA5DN-SB-7.0-8.0 **Collected:** 6/24/2011 9:05:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.169		0.0507	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	19.0		0.138	MDL	0.461	PQL	mg/Kg	J	Q, E
COBALT	7.94		0.0230	MDL	0.115	PQL	mg/Kg	J	Q, E, A
COPPER	9.90		0.0922	MDL	0.461	PQL	mg/Kg	J	Q, E, A
LEAD	6.07		0.0118	MDL	0.230	PQL	mg/Kg	J	E, A
NICKEL	14.9		0.115	MDL	0.461	PQL	mg/Kg	J	Q, E, A
SILVER	0.0570	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.244		0.0346	MDL	0.115	PQL	mg/Kg	J	Q
VANADIUM	35.5		0.0253	MDL	0.115	PQL	mg/Kg	J	E
ZINC	49.0		0.645	MDL	3.46	PQL	mg/Kg	J	E, A

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 11:40:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0840	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z, Q

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 11:40:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.447		0.0542	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 11:40:00 **Analysis Type:** REA3 **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.287	MDL	1.08	PQL	mg/Kg	J	A

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 11:40:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.352		0.0802	MDL	0.217	PQL	mg/Kg	UJ	E, B
ARSENIC	8.54		0.0867	MDL	0.434	PQL	mg/Kg	J	E, A
BERYLLIUM	1.13		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.367		0.0477	MDL	0.108	PQL	mg/Kg	J	Q
CHROMIUM	35.7		0.130	MDL	0.434	PQL	mg/Kg	J	Q, E
COBALT	18.6		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-122-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 11:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	21.4		0.0867	MDL	0.434	PQL	mg/Kg	J	Q, E, A
LEAD	14.6		0.0111	MDL	0.217	PQL	mg/Kg	J	E, A
NICKEL	31.6		0.108	MDL	0.434	PQL	mg/Kg	J	Q, E, A
SILVER	0.0615	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.373		0.0325	MDL	0.108	PQL	mg/Kg	J	Q
VANADIUM	62.3		0.0238	MDL	0.108	PQL	mg/Kg	J	E
ZINC	86.8		0.607	MDL	3.25	PQL	mg/Kg	J	E, A

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP17-SA5DN-QC-062411 *Collected:* 6/24/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-091-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-092-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 10:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-122-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-103-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0358	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

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

Sample ID: SL-103-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 9:15:00 *Analysis Type:* REA *Dilution:* 1

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

Sample ID: SL-103-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 9:15:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.90	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z, Q
EFH (C21-C30)	7.5		0.44	MDL	1.3	PQL	mg/Kg	J	Q

Sample ID: SL-103-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 9:05:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.6		0.47	MDL	1.4	PQL	mg/Kg	U	B

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

Sample ID: SL-091-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 12:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.2	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.5	J	7.1	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.0	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-092-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 10:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.2	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.3	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.84	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.0	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.8	J	7.0	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	1.2	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 9:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.76	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.91	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 9:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.3	J	7.0	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-122-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 11:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP17-SA5DN-QC-062411 *Collected:* 6/24/2011 10:25:00 *Analysis Type:* RES *Dilution:* 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.12	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: PrepDE188 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-091-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 12:35:00 **Analysis Type:** RES **Dilution:** 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.11	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: SL-092-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 10:18:00 **Analysis Type:** RES **Dilution:** 0.83

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	21		0.23	MDL	3.8	PQL	ug/Kg	J	Q
TOLUENE	0.08	U	0.08	MDL	3.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-122-SA5DN-SB-4.0-5.0 **Collected:** 6/24/2011 11:40:00 **Analysis Type:** RES **Dilution:** 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.1	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE188

Method Blank Outlier Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17908BB221219	7/7/2011 12:19:00 PM	TIN	1.71 mg/Kg	DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0
P17908BB222208	7/4/2011 10:08:00 PM	ALUMINUM BORON CALCIUM IRON LITHIUM PHOSPHORUS STRONTIUM	7.61 mg/Kg 0.614 mg/Kg 9.04 mg/Kg 4.88 mg/Kg 1.5 mg/Kg 1.60 mg/Kg 0.0620 mg/Kg	DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP17-SA5DN-QC-062411(RES)	TIN	3.99 mg/Kg	3.99U mg/Kg
SL-091-SA5DN-SB-4.0-5.0(RES)	TIN	3.79 mg/Kg	3.79U mg/Kg
SL-092-SA5DN-SB-4.0-5.0(REA)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	TIN	3.73 mg/Kg	3.73U mg/Kg
SL-103-SA5DN-SB-4.0-5.0(RES)	TIN	3.47 mg/Kg	3.47U mg/Kg
SL-103-SA5DN-SB-7.0-8.0(RES)	TIN	3.35 mg/Kg	3.35U mg/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	TIN	3.88 mg/Kg	3.88U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P17926AB221719A	6/29/2011 5:19:00 PM	ANTIMONY VANADIUM	0.178 mg/Kg 0.0772 mg/Kg	DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0
P18226AB220627A	7/5/2011 6:27:00 AM	ANTIMONY COPPER LEAD NICKEL VANADIUM	0.0870 mg/Kg 0.0943 mg/Kg 0.0272 mg/Kg 0.0977 mg/Kg 0.0531 mg/Kg	SL-091-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP17-SA5DN-QC-062411(RES)	ANTIMONY	0.280 mg/Kg	0.280U mg/Kg
SL-091-SA5DN-SB-4.0-5.0(REA4)	ANTIMONY	0.125 mg/Kg	0.125U mg/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.460 mg/Kg	0.460U mg/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	ANTIMONY	0.255 mg/Kg	0.255U mg/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-103-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.322 mg/Kg	0.322U mg/Kg
SL-103-SA5DN-SB-7.0-8.0(RES)	ANTIMONY	0.147 mg/Kg	0.147U mg/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.352 mg/Kg	0.352U mg/Kg

Method: **8015M**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P86863AB320154A	7/8/2011 1:54:00 AM	EFH (C30-C40)	1.5 mg/Kg	SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-103-SA5DN-SB-7.0-8.0(REA2)	EFH (C30-C40)	1.6 mg/Kg	1.6U mg/Kg

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB03B211459A	6/29/2011 2:59:00 PM	METHYLENE CHLORIDE	1.2 ug/Kg	DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: DE188_v1. eQAPP Name: CDM_SSFL_110509

Method: 6850
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5DN-SB-4.0-5.0MSD (SL-092-SA5DN-SB-4.0-5.0)	PERCHLORATE	-	127	80.00-120.00	-	PERCHLORATE	J (all detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-103-SA5DN-SB-4.0-5.0MS SL-103-SA5DN-SB-4.0-5.0MSD (SL-103-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL	31 60	36 -	59.00-109.00 63.00-107.00	- -	DIETHYLENE GLYCOL ETHYLENE GLYCOL	J(all detects) UJ(all non-detects)
SL-103-SA5DN-SB-4.0-5.0MS SL-103-SA5DN-SB-4.0-5.0MSD (SL-103-SA5DN-SB-4.0-5.0)	EFH (C15-C20) EFH (C21-C30)	136 595	174 441	49.00-123.00 49.00-123.00	- -	EFH (C15-C20) EFH (C21-C30)	J(all detects)
SL-103-SA5DN-SB-4.0-5.0MS SL-103-SA5DN-SB-4.0-5.0MSD (SL-103-SA5DN-SB-4.0-5.0)	EFH (C30-C40)	1158	2055	49.00-123.00	43 (20.00)	EFH (C30-C40)	No qual, >4x

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	169 126 149 138 144 154 162 190 141 149 162 198	193 129 169 170 162 197 225 217 158 160 179 315	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - - - - -	ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) As, Pb, V, Zn No qual, >4x
SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	ANTIMONY	-	-	75.00-125.00	30 (20.00)	ANTIMONY	J(all detects) UJ(all non-detects)
SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	SELENIUM	-	129	75.00-125.00	-	SELENIUM	J(all detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	MOLYBDENUM	149	167	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	BARIUM	-432	-369	75.00-125.00	-	BARIUM	No qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	ALUMINUM MAGNESIUM POTASSIUM TITANIUM	2803 306 138 302	2401 311 134 222	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM MAGNESIUM POTASSIUM TITANIUM	J(all detects) Al, Mn, Ti No qual >4x
SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	CALCIUM IRON MANGANESE	-39 -163 -41	-101 1115 -125	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CALCIUM IRON MANGANESE	No qual >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5DN-SB-4.0-5.0MS (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-092-SA5DN-SB-4.0-5.0MS SL-092-SA5DN-SB-4.0-5.0MSD (SL-092-SA5DN-SB-4.0-5.0)	METHYLENE CHLQRIDE	168	232	61.00-141.00	-	METHYLENE CHLORIDE	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: PrepDE188 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-092-SA5DN-SB-4.0-5.0DUP (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	FLUORIDE	2.4	2.2 mg/kg	J (all detects) UJ (all non-detects)
	Nitrate-NO3	27	20.00	NO3, No qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-092-SA5DN-SB-4.0-5.0DUP (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	TIN	33	20.00	No qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-092-SA5DN-SB-4.0-5.0DUP (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	ANTIMONY	39	20.00	J(all detects) UJ(all non-detects)
	ARSENIC	31	20.00	
	BERYLLIUM	28	20.00	
	CHROMIUM	33	20.00	
	COBALT	39	20.00	
	COPPER	27	20.00	
	LEAD	29	20.00	
	MOLYBDENUM	35	20.00	Sb, Mo, Tl No qual, OK by Difference
	NICKEL	30	20.00	
	THALLIUM	34	20.00	
	VANADIUM	42	20.00	
	ZINC	22	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: DE188_v1. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P17926AQ221722A (DUP17-SA5DN-QC-062411 SL-092-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-7.0-8.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	ANTIMONY	131	-	80.00-120.00	-	ANTIMONY	No qual SRM within QC Limits
P18226AQ220630A (SL-091-SA5DN-SB-4.0-5.0)	ANTIMONY	67	-	80.00-120.00	-	ANTIMONY	No qual, SRM within QC Limits

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB03Q211526A (DUP17-SA5DN-QC-062411 SL-091-SA5DN-SB-4.0-5.0 SL-092-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-4.0-5.0 SL-103-SA5DN-SB-7.0-8.0 SL-122-SA5DN-SB-4.0-5.0)	1,2-DIBROMO-3-CHLOROPROP	129	-	58.00-120.00	-	1,2-DIBROMO-3-CHLOROPRO	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE188 Laboratory: LL

EDD Filename: DE188_v1. eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
MOISTURE	13.0	15.1	15		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
FLUORIDE	3.3	3.3	0	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
ALUMINUM	29900	33300	11	50.00	No Qualifiers Applied
BORON	16.0	16.9	5	50.00	
CALCIUM	7840	8120	4	50.00	
IRON	33800	44000	26	50.00	
LITHIUM	29.9	31.0	4	50.00	
MAGNESIUM	7700	9210	18	50.00	
MANGANESE	472	361	27	50.00	
PHOSPHORUS	406	452	11	50.00	
POTASSIUM	3830	4050	6	50.00	
SODIUM	223	240	7	50.00	
STRONTIUM	38.0	44.6	16	50.00	
TIN	2.47	3.99	47	50.00	
TITANIUM	1350	1330	1	50.00	
Zirconium	8.67	8.47	2	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
ANTIMONY	0.460	0.280	49	50.00	No Qualifiers Applied
ARSENIC	10.1	7.82	25	50.00	
BARIUM	182	178	2	50.00	
BERYLLIUM	1.28	1.08	17	50.00	
CADMIUM	0.370	0.318	15	50.00	
CHROMIUM	42.5	34.3	21	50.00	
COBALT	16.7	12.6	28	50.00	
COPPER	23.7	20.3	15	50.00	
LEAD	13.7	12.9	6	50.00	
MOLYBDENUM	0.518	0.436	17	50.00	
NICKEL	31.7	28.2	12	50.00	
THALLIUM	0.423	0.369	14	50.00	
VANADIUM	77.2	57.4	29	50.00	
ZINC	99.0	85.2	15	50.00	
SELENIUM	0.150	0.0799	61	50.00	J(all detects)
SILVER	0.0675	0.0374	57	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
HEXAVALENT CHROMIUM	0.48	0.49	2	50.00	No Qualifiers Applied

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
ACETONE	10	15	40	50.00	No Qualifiers Applied
METHYLENE CHLORIDE	21	16	27	50.00	
TOLUENE	3.8 U	0.12	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
PH	7.82	7.76	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)
SL-103-SA5DN-SB-7.0-8.0	Nitrate-NO3	J	1.5	1.8	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5DN-QC-062411	TIN	J	3.99	11.8	PQL	mg/Kg	J (all detects)
SL-091-SA5DN-SB-4.0-5.0	SODIUM	J	105	115	PQL	mg/Kg	J (all detects)
	TIN	J	3.79	11.5	PQL	mg/Kg	
	Zirconium	J	5.63	5.75	PQL	mg/Kg	
SL-092-SA5DN-SB-4.0-5.0	TIN	J	2.47	11.2	PQL	mg/Kg	J (all detects)
SL-092-SA5DN-SB-7.0-8.0	TIN	J	3.73	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.50	5.70	PQL	mg/Kg	
SL-103-SA5DN-SB-4.0-5.0	TIN	J	3.47	10.7	PQL	mg/Kg	J (all detects)
SL-103-SA5DN-SB-7.0-8.0	TIN	J	3.35	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.49	5.70	PQL	mg/Kg	
SL-122-SA5DN-SB-4.0-5.0	TIN	J	3.88	11.3	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5DN-QC-062411	SELENIUM	J	0.0799	0.462	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0374	0.115	PQL	mg/Kg	
SL-091-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.125	0.239	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.151	0.478	PQL	mg/Kg	
	SILVER	J	0.0768	0.120	PQL	mg/Kg	
SL-092-SA5DN-SB-4.0-5.0	SELENIUM	J	0.150	0.446	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0675	0.112	PQL	mg/Kg	
SL-092-SA5DN-SB-7.0-8.0	SILVER	J	0.0480	0.114	PQL	mg/Kg	J (all detects)
SL-103-SA5DN-SB-4.0-5.0	SELENIUM	J	0.115	0.430	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0729	0.107	PQL	mg/Kg	
SL-103-SA5DN-SB-7.0-8.0	ANTIMONY	J	0.147	0.230	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0570	0.115	PQL	mg/Kg	
SL-122-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0840	0.434	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0615	0.108	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5DN-QC-062411	HEXAVALENT CHROMIUM	J	0.49	1.2	PQL	mg/Kg	J (all detects)
SL-091-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.2	PQL	mg/Kg	J (all detects)
SL-092-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-103-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-122-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA5DN-SB-7.0-8.0	MERCURY	J	0.0358	0.111	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA5DN-SB-4.0-5.0	EFH (C15-C20)	J	0.90	1.3	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP17-SA5DN-QC-062411	TOLUENE	J	0.12	4.2	PQL	ug/Kg	J (all detects)
SL-091-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.2	PQL	ug/Kg	J (all detects)
SL-122-SA5DN-SB-4.0-5.0	TOLUENE	J	0.1	4.2	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-091-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.2	2.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.5	21	PQL	ug/Kg	
	CHRYSENE	J	1.2	2.0	PQL	ug/Kg	
	PYRENE	J	1.0	2.0	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE188 **Laboratory: LL**

EDD Filename: DE188_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-092-SA5DN-SB-7.0-8.0	BENZO(A)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.3	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.84	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	1.0	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.8	21	PQL	ug/Kg	
	CHRYSENE	J	1.2	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
SL-103-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.76	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.91	1.8	PQL	ug/Kg	
SL-103-SA5DN-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	21	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.47	1.9	PQL	ug/Kg	
SL-122-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	20	PQL	ug/Kg	J (all detects)

LDC #: 26407L4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE188 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CC
2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A ~~N~~	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples:

1	SL-091-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-092-SA5DN-SB-4.0-5.0	12		22		32	
3	SL-092-SA5DN-SB-7.0-8.0	13		23		33	
4	SL-122-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-103-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-103-SA5DN-SB-7.0-8.0	16		26		36	
7	DUP17-SA5DN-QC-062411	17		27		37	
8	SL-092-SA5DN-SB-4.0-5.0MS	18		28		38	
9	SL-092-SA5DN-SB-4.0-5.0MSD	19		29		39	
10	SL-092-SA5DN-SB-4.0-5.0DUP	20		30		40	

Notes: _____

LDC #: 26407L4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: OR
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS:2xdil
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 1, 3-7

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	6													
Zr	5.2	2.6	2.5													

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE188
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6328447BKG Matrix Spike Lab Sample ID: 6328448MS Matrix Spike Duplicate Lab Sample ID: 6328449MSD
% Solids for Sample: 87.0
Batch Id(s): P17908B, P17926A, P17911A

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
Aluminum		29850.2232		36166.9191		35315.3044		225.3775	227.6090	MG/KG	2803		2401		2			20	P
Antimony	121	0.4602		1.5387		2.0741		1.3391	1.3391	MG/KG	81		121		30	*	75 - 125	20	MS
Arsenic	75	10.1149		13.8779		14.4136		2.2319	2.2319	MG/KG	169		193		4			20	MS
Barium	137	182.4573		134.2484		141.2789		11.1595	11.1595	MG/KG	-432		-369		5			20	MS
Beryllium	9	1.2758		2.3971		2.4305		0.8928	0.8928	MG/KG	126	N	129	N	1		75 - 125	20	MS
Boron		16.0417		234.9899		236.3856		225.3775	227.6090	MG/KG	97		97		1		84 - 115	20	P
Cadmium	111	0.3698		2.0350		2.2609		1.1159	1.1159	MG/KG	149	N	169	N	11		75 - 125	20	MS
Calcium		7844.8812		7670.6063		7386.2331		450.7550	455.2179	MG/KG	-39		-101		4			20	P
Chromium	52	42.5399		57.9846		61.5556		11.1595	11.1595	MG/KG	138	N	170	N	6		75 - 125	20	MS
Cobalt	59	16.6946		96.7749		107.1755		55.7973	55.7973	MG/KG	144	N	162	N	10		75 - 125	20	MS
Copper	63	23.6804		40.8883		45.6645		11.1595	11.1595	MG/KG	154	N	197	N	11		75 - 125	20	MS
Iron		33806.6901		33621.9123		35075.4979		112.6888	113.8045	MG/KG	-164		1115		4			20	P
Lead	208	13.6570		19.0715		21.1829		3.3478	3.3478	MG/KG	162		225		10			20	MS
Lithium		29.8717		146.5416		147.9720		112.6888	113.8045	MG/KG	104		104		1		82 - 114	20	P
Magnesium		7703.9371		8394.5605		8411.2166		225.3775	227.6090	MG/KG	306		311		0			20	P
Manganese		472.0957		448.7976		400.7329		56.3444	56.9022	MG/KG	-41		-125		11			20	P
Mercury		0.0080	U	0.1822		0.1855		0.1787	0.1863	MG/KG	102		100		2		65 - 135	20	CV
Molybdenum	98	0.5185		17.1856		19.1162		11.1595	11.1595	MG/KG	149	N	167	N	11		75 - 125	20	MS
Nickel	60	31.6929		52.8736		55.8866		11.1595	11.1595	MG/KG	190	N	217	N	6		75 - 125	20	MS
Phosphorus		405.6221		499.6011		515.6709		112.6888	113.8045	MG/KG	83		97		3		75 - 125	20	P
Potassium		3831.5657		5384.0309		5360.1957		1126.8875	1138.0448	MG/KG	138	N	134	N	0		75 - 125	20	P
Selenium	78	0.1501	B	2.7251		3.0198		2.2319	2.2319	MG/KG	115		129	N	10		75 - 125	20	MS
Silver	107	0.0675	B	15.8219		17.6900		11.1595	11.1595	MG/KG	141	N	158	N	11		75 - 125	20	MS
Sodium		222.5243		1363.3243		1380.1787		1126.8875	1138.0448	MG/KG	101		102		1		75 - 125	20	P
Strontium		37.9913		151.7332		154.7297		112.6888	113.8045	MG/KG	101		103		2		75 - 115	20	P
Thallium	203	0.4229		1.0872		1.1360		0.4464	0.4464	MG/KG	149	N	160	N	4		75 - 125	20	MS
Tin		2.4718	B	429.4568		437.2459		450.7550	455.2179	MG/KG	95		96		2		80 - 110	20	P
Titanium		1350.1786		1690.4372		1602.4559		112.6888	113.8045	MG/KG	302		222		5			20	P
Vanadium	51	77.1566		95.2349		97.0874		11.1595	11.1595	MG/KG	162		179		2			20	MS
Zinc	66	99.0291		121.1026		134.1368		11.1595	11.1595	MG/KG	198		315		10			20	MS
Zirconium		8.6687		120.4834		124.1800		112.6888	113.8045	MG/KG	99		101		3		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer CV = Cold Vapor
MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE188
Matrix: SOIL Level (low/med): LOW

<5xRL

Background Lab Sample ID: 6328447BKG
% Solids for Duplicate: 86.5
Batch ID(s): P17908B, P17926A, P17911A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6328450DUP
% Solids for Sample: 87.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			29850.2232		29703.9445		0		P
Antimony	121	0.2	0.4602		0.3088		39		MS
Arsenic	75		10.1149		7.3873		31	*	MS
Barium	137		182.4573		148.9169		20		MS
Beryllium	9		1.2758		0.9611		28	*	MS
Boron		5.6	16.0417		15.9980		0		P
Cadmium	111	0.1	0.3698		0.3066		19		MS
Calcium			7844.8812		6925.3327		12		P
Chromium	52		42.5399		30.3714		33	*	MS
Cobalt	59		16.6946		11.2599		39	*	MS
Copper	63		23.6804		18.1278		27	*	MS
Iron			33806.6901		32947.8227		3		P
Lead	208		13.6570		10.2166		29	*	MS
Lithium			29.8717		29.2573		2		P
Magnesium			7703.9371		7652.6614		1		P
Manganese			472.0957		409.8375		14		P
Mercury			0.0080	U	0.0081	U			CV
Molybdenum	98	0.1	0.5185		0.3638		35	*	MS
Nickel	60		31.6929		23.4306		30	*	MS
Phosphorus			405.6221		397.7586		2		P
Potassium			3831.5657		3775.9483		1		P
Selenium	78		0.1501	B	0.1246	B	19		MS
Silver	107		0.0675	B	0.0658	B	3		MS
Sodium		111.6	222.5243		220.4819		1		P
Strontium			37.9913		38.0747		0		P
Thallium	203	0.1	0.4229		0.2993		34	*	MS
Tin			2.4718	B	3.4339	B	33		P
Titanium			1350.1786		1364.6419		1		P
Vanadium	51		77.1566		50.4642		42	*	MS
Zinc	66		99.0291		79.7745		22	*	MS
Zirconium		5.6	8.6687		9.2197		6		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE188
Matrix: SOIL Level (low/med): LOW

5 of 5

Background Lab Sample ID: 6328447BKG Serial Dilution Lab Sample ID: 6328447L
Batch ID(s): P17908B, P17926A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		267487.8500		273387.3500		2		P
Antimony	121	2.0620		2.5485	B	24		MS
Arsenic	75	45.3200		38.3250		15	E	MS
Barium	137	817.5000		631.0000		23	E	MS
Beryllium	9	5.7160		5.0900		11		MS
Boron		143.7500		161.9000	B	13		P
Cadmium	111	1.6570		1.8305	B	10		MS
Calcium		70297.9800		72441.9500		3		P
Chromium	52	190.6000		183.5500		4		MS
Cobalt	59	74.8000		61.0000		18	E	MS
Copper	63	106.1000		90.9500		14	E	MS
Iron		60588.3500		68902.9500		14	E	P
Lead	208	61.1900		49.6850		19	E	MS
Lithium		267.6800		295.4500		10		P
Magnesium		69034.9800		69931.2000		1		P
Manganese		4230.4500		4285.6500		1		P
Molybdenum	98	2.3230		2.3065	B	1		MS
Nickel	60	142.0000		118.2000		17	E	MS
Phosphorus		3634.7800		3607.1500		1		P
Potassium		34334.6600		33329.8500		3		P
Selenium	78	0.6725	B	1.4500	U	100		MS
Silver	107	0.3025	B	0.3550	U	100		MS
Sodium		1994.0400		2090.7500	B	5		P
Strontium		340.4400		341.1500		0		P
Thallium	203	1.8950		1.7710	B	7		MS
Tin		22.1500	B	18.2500	B	18		P
Titanium		12098.9500		11650.4500		4		P
Vanadium	51	345.7000		338.0000		2		MS
Zinc	66	443.7000		365.2000		18	E	MS
Zirconium		77.6800		93.9500	B	21		P

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

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

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

DE188 3292

SAMPLE DELIVERY GROUP

DE189

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3050B	6010B	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3050B	6020	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3060A	7199	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3550B	8082	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3550B	8270C	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	3550B	8270C SIM	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	5035	8260B	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	5035	8260B SIM	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	8330	8330A	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	METHOD	300.0	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	METHOD	314.0	III
27-Jun-2011	SL-085-SA5DN-SB-2.5-3.5	6329378	N	METHOD	7471A	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3050B	6010B	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3050B	6020	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3060A	7199	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3550B	8082	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3550B	8270C	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	3550B	8270C SIM	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	5035	8260B	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	5035	8260B SIM	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	8330	8330A	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	METHOD	300.0	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	METHOD	314.0	III
27-Jun-2011	SL-078-SA5DN-SB-4.0-5.0	6329376	N	METHOD	7471A	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3050B	6010B	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3060A	7199	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3550B	8082	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3550B	8270C	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	3550B	8270C SIM	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	8330	8330A	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	METHOD	300.0	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	METHOD	314.0	III
27-Jun-2011	SL-078-SA5DN-SB-9.0-10.0	6329377	N	METHOD	7471A	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3050B	6010B	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3060A	7199	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3550B	8082	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3550B	8270C	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	3550B	8270C SIM	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	5035	8260B	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	5035	8260B SIM	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	8330	8330A	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	METHOD	300.0	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	METHOD	314.0	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0	6329374	N	METHOD	7471A	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D220414	DUP	3050B	6010B	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D220816	DUP	METHOD	7471A	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D221100A	DUP	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D221100B	DUP	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D221100C	DUP	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D221100D	DUP	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D270723A	DUP	METHOD	300.0	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0DU	P329374D271736B	DUP	METHOD	314.0	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R220419	MS	3050B	6010B	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R220817	MS	METHOD	7471A	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R221103A	MS	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R221103B	MS	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R221103C	MS	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R221112D	MS	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R270738A	MS	METHOD	300.0	III
27-Jun-2011	SL-077-SA5DN-SB-4.0-5.0MS	P329374R271800B	MS	METHOD	314.0	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3050B	6010B	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3050B	6020	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3060A	7199	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3550B	8082	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3550B	8270C	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	3550B	8270C SIM	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	8330	8330A	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	METHOD	300.0	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	METHOD	314.0	III
27-Jun-2011	SL-077-SA5DN-SB-9.0-10.0	6329375	N	METHOD	7471A	III
27-Jun-2011	TB-062711	6329380	TB	5030B	8260B	III
27-Jun-2011	TB-062711	6329380	TB	5030B	8260B SIM	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3050B	6010B	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3050B	6020	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3060A	7199	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3550B	8270C	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	3550B	8270C SIM	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	5035	8260B	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	5035	8260B SIM	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	METHOD	300.0	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	METHOD	314.0	III
27-Jun-2011	SL-123-SA5DN-SB-2.5-3.5	6329379	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory:** LL

EDD Filename: DE189_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.5		0.95	MDL	1.2	PQL	mg/Kg	J	E

Sample ID: SL-077-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.96	MDL	1.2	PQL	mg/Kg	J	E

Sample ID: SL-078-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	10.9		0.93	MDL	1.2	PQL	mg/Kg	J	E

Sample ID: SL-078-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.92	MDL	1.2	PQL	mg/Kg	J	E

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.93	MDL	1.2	PQL	mg/Kg	J	E

Sample ID: SL-123-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.1		0.86	MDL	1.1	PQL	mg/Kg	J	E

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	218		0.0411	MDL	0.571	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	238		0.400	MDL	11.4	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE189 Laboratory: LL

EDD Filename: DE189_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4130		12.9	MDL	57.1	PQL	mg/Kg	J	Q
TIN	2.97	J	0.365	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-077-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	198		0.0414	MDL	0.575	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	330		0.403	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	3240		13.0	MDL	57.5	PQL	mg/Kg	J	Q
TIN	2.73	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.53	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	402		0.0402	MDL	0.558	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	334		0.391	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3480		12.6	MDL	55.8	PQL	mg/Kg	J	Q
TIN	2.76	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	5.57	J	0.514	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	173		0.0406	MDL	0.564	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	332		0.395	MDL	11.3	PQL	mg/Kg	J	Q
POTASSIUM	2770		12.7	MDL	56.4	PQL	mg/Kg	J	Q
TIN	2.75	J	0.361	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	4.13	J	0.519	MDL	5.64	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	281		0.0420	MDL	0.583	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	202		0.408	MDL	11.7	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2720		13.2	MDL	58.3	PQL	mg/Kg	J	Q
TIN	2.83	J	0.373	MDL	11.7	PQL	mg/Kg	U	B
Zirconium	3.91	J	0.536	MDL	5.83	PQL	mg/Kg	J	Z

Sample ID: SL-123-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.11	J	0.370	MDL	5.14	PQL	mg/Kg	J	Z
MANGANESE	270		0.0370	MDL	0.514	PQL	mg/Kg	J	Q, E, E
PHOSPHORUS	437		0.360	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	1970		11.6	MDL	51.4	PQL	mg/Kg	J	Q
TIN	2.84	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	3.28	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0759	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z, Q, L

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.526		0.0571	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.363		0.0845	MDL	0.228	PQL	mg/Kg	J	Q, E
ARSENIC	8.51		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
BERYLLIUM	1.18		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.303		0.0502	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	42.7		0.137	MDL	0.457	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **SL-077-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 10:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	11.6		0.0228	MDL	0.114	PQL	mg/Kg	J	Q
COPPER	18.8		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
LEAD	12.9		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E
NICKEL	27.2		0.114	MDL	0.457	PQL	mg/Kg	J	Q
SILVER	0.0611	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.493		0.0343	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: **SL-077-SA5DN-SB-9.0-10.0** ***Collected:*** **6/27/2011 10:40:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.520		0.0586	MDL	0.117	PQL	mg/Kg	J	Q

Sample ID: **SL-077-SA5DN-SB-9.0-10.0** ***Collected:*** **6/27/2011 10:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.281		0.0868	MDL	0.235	PQL	mg/Kg	J	Q, E
ARSENIC	12.4		0.0938	MDL	0.469	PQL	mg/Kg	J	Q
BERYLLIUM	1.07		0.0188	MDL	0.117	PQL	mg/Kg	J	Q
CADMIUM	0.407		0.0516	MDL	0.117	PQL	mg/Kg	J	Q
CHROMIUM	35.1		0.141	MDL	0.469	PQL	mg/Kg	J	Q
COBALT	15.9		0.0235	MDL	0.117	PQL	mg/Kg	J	Q
COPPER	20.2		0.0938	MDL	0.469	PQL	mg/Kg	J	Q
LEAD	12.6		0.0120	MDL	0.235	PQL	mg/Kg	J	Q, E
NICKEL	28.8		0.117	MDL	0.469	PQL	mg/Kg	J	Q
SILVER	0.0566	J	0.0167	MDL	0.117	PQL	mg/Kg	J	Z, Q
THALLIUM	0.353		0.0352	MDL	0.117	PQL	mg/Kg	J	Q, E

Sample ID: **SL-078-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 9:50:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0838	J	0.0660	MDL	0.455	PQL	mg/Kg	J	Z, Q, L

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **SL-078-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 9:50:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.477		0.0569	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: **SL-078-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 9:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.326		0.0843	MDL	0.228	PQL	mg/Kg	J	Q, E
ARSENIC	12.1		0.0911	MDL	0.455	PQL	mg/Kg	J	Q
BERYLLIUM	1.26		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.374		0.0501	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	44.7		0.137	MDL	0.455	PQL	mg/Kg	J	Q
COBALT	15.9		0.0228	MDL	0.114	PQL	mg/Kg	J	Q
COPPER	23.0		0.0911	MDL	0.455	PQL	mg/Kg	J	Q
LEAD	16.4		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E
NICKEL	31.1		0.114	MDL	0.455	PQL	mg/Kg	J	Q
SILVER	0.0428	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.468		0.0342	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: **SL-078-SA5DN-SB-9.0-10.0** ***Collected:*** **6/27/2011 9:55:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.322		0.0553	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SL-078-SA5DN-SB-9.0-10.0** ***Collected:*** **6/27/2011 9:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0819	MDL	0.221	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.69		0.0885	MDL	0.443	PQL	mg/Kg	J	Q
BERYLLIUM	0.922		0.0177	MDL	0.111	PQL	mg/Kg	J	Q
CADMIUM	0.340		0.0487	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	28.5		0.133	MDL	0.443	PQL	mg/Kg	J	Q
COBALT	8.87		0.0221	MDL	0.111	PQL	mg/Kg	J	Q
COPPER	15.6		0.0885	MDL	0.443	PQL	mg/Kg	J	Q
LEAD	9.56		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	17.7		0.111	MDL	0.443	PQL	mg/Kg	J	Q
SILVER	0.0402	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE189 Laboratory: LL

EDD Filename: DE189_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-078-SA5DN-SB-9.0-10.0 **Collected:** 6/27/2011 9:55:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.349		0.0332	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: SL-085-SA5DN-SB-2.5-3.5 **Collected:** 6/27/2011 9:10:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.681		0.0571	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-085-SA5DN-SB-2.5-3.5 **Collected:** 6/27/2011 9:10:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.318		0.0846	MDL	0.229	PQL	mg/Kg	J	Q, E
ARSENIC	8.91		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
BERYLLIUM	0.982		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.137		0.0503	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	30.6		0.137	MDL	0.457	PQL	mg/Kg	J	Q
COBALT	8.06		0.0229	MDL	0.114	PQL	mg/Kg	J	Q
COPPER	15.0		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
LEAD	9.06		0.0117	MDL	0.229	PQL	mg/Kg	J	Q, E
NICKEL	19.3		0.114	MDL	0.457	PQL	mg/Kg	J	Q
SILVER	0.0782	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.324		0.0343	MDL	0.114	PQL	mg/Kg	J	Q, E

Sample ID: SL-123-SA5DN-SB-2.5-3.5 **Collected:** 6/27/2011 2:35:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0646	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z, Q, L

Sample ID: SL-123-SA5DN-SB-2.5-3.5 **Collected:** 6/27/2011 2:35:00 **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.439		0.0519	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-123-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 2:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.199	J	0.0768	MDL	0.208	PQL	mg/Kg	J	Z, Q, E
ARSENIC	9.10		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
BERYLLIUM	0.736		0.0166	MDL	0.104	PQL	mg/Kg	J	Q
CADMIUM	0.143		0.0457	MDL	0.104	PQL	mg/Kg	J	Q
CHROMIUM	29.4		0.125	MDL	0.415	PQL	mg/Kg	J	Q
COBALT	9.01		0.0208	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	13.9		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
LEAD	6.80		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	21.6		0.104	MDL	0.415	PQL	mg/Kg	J	Q
SILVER	0.0183	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.387		0.0312	MDL	0.104	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0126	J	0.0082	MDL	0.117	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0119	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-078-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0251	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0133	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	400	U	400	MDL	1200	PQL	ug/Kg	UJ	L
2,4-DINITROTOLUENE	46	J	40	MDL	200	PQL	ug/Kg	J	Z
4,6-DINITRO-2-METHYLPHENOL	200	U	200	MDL	590	PQL	ug/Kg	UJ	L

Sample ID: SL-077-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 10:40:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	400	U	400	MDL	1200	PQL	ug/Kg	UJ	L
2,4-DINITROTOLUENE	48	J	40	MDL	200	PQL	ug/Kg	J	Z
4,6-DINITRO-2-METHYLPHENOL	200	U	200	MDL	600	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	20	MDL	400	PQL	ug/Kg	J	Z

Sample ID: SL-078-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 9:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: SL-078-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 9:55:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 9:10:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: SL-123-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 2:35:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	360	U	360	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

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

Sample ID: **SL-077-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 10:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	7.0	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.9	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-077-SA5DN-SB-9.0-10.0** ***Collected:*** **6/27/2011 10:40:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.96	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	0.60	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: **SL-078-SA5DN-SB-4.0-5.0** ***Collected:*** **6/27/2011 9:50:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-078-SA5DN-SB-9.0-10.0** ***Collected:*** **6/27/2011 9:55:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.0	J	6.9	MDL	21	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: **SL-085-SA5DN-SB-2.5-3.5** ***Collected:*** **6/27/2011 9:10:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-123-SA5DN-SB-2.5-3.5** ***Collected:*** **6/27/2011 2:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	J	6.3	MDL	19	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 Laboratory: LL

EDD Filename: DE189_v1 eQAPP Name: CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-078-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 9:50:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.12	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 9:10:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	9.5		0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.14	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE189

Method Blank Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18008CB220354	7/11/2011 3:54:00 AM	CALCIUM MANGANESE PHOSPHORUS TIN	4.04 mg/Kg 0.0970 mg/Kg 1.15 mg/Kg 1.76 mg/Kg	SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5
P18008CB222210	7/11/2011 10:10:00 PM	IRON	10.7 mg/Kg	SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-077-SA5DN-SB-4.0-5.0(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-078-SA5DN-SB-9.0-10.0(RES)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18026BB221048A	6/30/2011 10:48:00 AM	COPPER LEAD VANADIUM	0.128 mg/Kg 0.0185 mg/Kg 0.0372 mg/Kg	SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB03B211459A	6/29/2011 2:59:00 PM	METHYLENE CHLORIDE	1.2 ug/Kg	SL-077-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-4.0-5.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-085-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	9.5 ug/Kg	9.5U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-077-SA5DN-SB-4.0-5.0MS SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	ARSENIC	168	247	75.00-125.00	-	ARSENIC	
	BERYLLIUM	-	145	75.00-125.00	-	BERYLLIUM	
	CADMIUM	157	170	75.00-125.00	-	CADMIUM	J (all detects)
	CHROMIUM	-	187	75.00-125.00	-	CHROMIUM	
	COBALT	145	160	75.00-125.00	-	COBALT	
	COPPER	154	207	75.00-125.00	-	COPPER	
	NICKEL	185	223	75.00-125.00	-	NICKEL	V, Zn,
	SILVER	136	157	75.00-125.00	-	SILVER	No Qual, >4x
	VANADIUM	141	189	75.00-125.00	-	VANADIUM	
	ZINC	208	333	75.00-125.00	-	ZINC	
SL-077-SA5DN-SB-4.0-5.0MS SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	ANTIMONY	67	-	75.00-125.00	26 (20.00)	ANTIMONY	
	LEAD	-	236	75.00-125.00	22 (20.00)	LEAD	
	THALLIUM	-	179	75.00-125.00	21 (20.00)	THALLIUM	J(all detects) UJ(all non-detects)
SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	SELENIUM	-	126	75.00-125.00	-	SELENIUM	J(all detects)
SL-077-SA5DN-SB-4.0-5.0MS SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	MOLYBDENUM	140	162	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-077-SA5DN-SB-4.0-5.0MS SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	BARIUM	-148	-143	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-077-SA5DN-SB-4.0-5.0MS SL-077-SA5DN-SB-4.0-5.0MSD (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	ALUMINUM	2168	1809	75.00-125.00	-	ALUMINUM	
	CALCIUM	177	143	75.00-125.00	-	CALCIUM	J(all detects)
	IRON	6514	4724	75.00-125.00	-	IRON	
	MAGNESIUM	354	269	75.00-125.00	-	MAGNESIUM	
	PHOSPHORUS	204	148	75.00-125.00	-	PHOSPHORUS	Al, Ca, Fe, Mg,
	POTASSIUM	153	144	75.00-125.00	-	POTASSIUM	No Qual, >4x

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-077-SA5DN-SB-4.0-5.0MS **SL-077-SA5DN-SB-4.0-5.0MSD** (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	MANGANESE	489	250	75.00-125.00	33 (20.00)	MANGANESE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-077-SA5DN-SB-4.0-5.0DUP (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	FLUORIDE	44	20.00	J (all detects) UJ (all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-077-SA5DN-SB-4.0-5.0DUP (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	MANGANESE	22	20.00	J(all detects) UJ(all non-detects)

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-077-SA5DN-SB-4.0-5.0DUP (SL-077-SA5DN-SB-4.0-5.0 SL-077-SA5DN-SB-9.0-10.0 SL-078-SA5DN-SB-4.0-5.0 SL-078-SA5DN-SB-9.0-10.0 SL-085-SA5DN-SB-2.5-3.5 SL-123-SA5DN-SB-2.5-3.5)	MERCURY	113	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY13Y211332A (TB-062711)	BROMOBENZENE	-	121	80.00-120.00	-	BROMOBENZENE	J(all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P18026BQ221051A (SL-077-SA5DN -SB-4.0-5.0 SL -077-SA5DN -SB-9.0-10.0 SL -078-SA5DN -SB-4.0-5.0 SL -078-SA5DN -SB-9.0-10.0 SL -085-SA5DN -SB-2.5-3.5 SL -123-SA5DN -SB-2.5-3.5)	ANTIMONY	125	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LBLCSQ260013 (SL-077-SA5DN -SB-4.0-5.0 SL -077-SA5DN -SB-9.0-10.0 SL -078-SA5DN -SB-4.0-5.0 SL -078-SA5DN -SB-9.0-10.0 SL -085-SA5DN -SB-2.5-3.5 SL -123-SA5DN -SB-2.5-3.5)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL	26 42	- -	37.00-120.00 53.00-110.00	- -	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19608BQ221000 (SL-077-SA5DN -SB-4.0-5.0 SL -077-SA5DN -SB-9.0-10.0 SL -078-SA5DN -SB-4.0-5.0 SL -078-SA5DN -SB-9.0-10.0 SL -085-SA5DN -SB-2.5-3.5 SL -123-SA5DN -SB-2.5-3.5)	TITANIUM	157	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**

Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCSB03Q211526A (SL-077-SA5DN -SB-4.0-5.0 SL -078-SA5DN -SB-4.0-5.0 SL -085-SA5DN -SB-2.5-3.5 SL -123-SA5DN -SB-2.5-3.5)	1,2-DIBROMO-3-CHLOROPROP	129	-	58.00-120.00	-	1,2-DIBROMO-3-CHLOROPRO	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-4.0-5.0	TIN	J	2.97	11.4	PQL	mg/Kg	J (all detects)
SL-077-SA5DN-SB-9.0-10.0	TIN Zirconium	J J	2.73 4.53	11.5 5.75	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-078-SA5DN-SB-4.0-5.0	TIN Zirconium	J J	2.76 5.57	11.2 5.58	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-078-SA5DN-SB-9.0-10.0	TIN Zirconium	J J	2.75 4.13	11.3 5.64	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-085-SA5DN-SB-2.5-3.5	TIN Zirconium	J J	2.83 3.91	11.7 5.83	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-123-SA5DN-SB-2.5-3.5	BORON TIN Zirconium	J J J	5.11 2.84 3.28	5.14 10.3 5.14	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-4.0-5.0	SELENIUM SILVER	J J	0.0759 0.0611	0.457 0.114	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-077-SA5DN-SB-9.0-10.0	SILVER	J	0.0566	0.117	PQL	mg/Kg	J (all detects)
SL-078-SA5DN-SB-4.0-5.0	SELENIUM SILVER	J J	0.0838 0.0428	0.455 0.114	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-078-SA5DN-SB-9.0-10.0	ANTIMONY SILVER	J J	0.163 0.0402	0.221 0.111	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-085-SA5DN-SB-2.5-3.5	SILVER	J	0.0782	0.114	PQL	mg/Kg	J (all detects)
SL-123-SA5DN-SB-2.5-3.5	ANTIMONY SELENIUM SILVER	J J J	0.199 0.0646 0.0183	0.208 0.415 0.104	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-4.0-5.0	MERCURY	J	0.0126	0.117	PQL	mg/Kg	J (all detects)
SL-078-SA5DN-SB-4.0-5.0	MERCURY	J	0.0119	0.110	PQL	mg/Kg	J (all detects)
SL-078-SA5DN-SB-9.0-10.0	MERCURY	J	0.0251	0.111	PQL	mg/Kg	J (all detects)
SL-085-SA5DN-SB-2.5-3.5	MERCURY	J	0.0133	0.112	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-078-SA5DN-SB-4.0-5.0	TOLUENE	J	0.12	4.1	PQL	ug/Kg	J (all detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE189 **Laboratory: LL**

EDD Filename: DE189_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5DN-SB-2.5-3.5	TOLUENE	J	0.14	4.1	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-4.0-5.0	2,4-DINITROTOLUENE	J	46	200	PQL	ug/Kg	J (all detects)
SL-077-SA5DN-SB-9.0-10.0	2,4-DINITROTOLUENE	J	48	200	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	400	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	21	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	7.9	21	PQL	ug/Kg	
SL-077-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.96	2.0	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.60	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	2.0	PQL	ug/Kg	
	PYRENE	J	1.3	2.0	PQL	ug/Kg	
SL-078-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.9	21	PQL	ug/Kg	J (all detects)
SL-078-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.0	21	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.78	1.9	PQL	ug/Kg	
SL-085-SA5DN-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	13	21	PQL	ug/Kg	
SL-123-SA5DN-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.6	19	PQL	ug/Kg	J (all detects)

LDC #: 26277S4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/3/11
SDG #: DE189 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer: C

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	M field
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	Al, Ba, Ca, Fe, Mg, V, Zn >4X,
VII.	Duplicate Sample Analysis	N	Hg <5X
VIII.	Laboratory Control Samples (LCS)	SW	SRM, Se JLT
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-077-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-077-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-078-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-078-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-085-SA5DN-SB-2.5-3.5	15		25		35	
6	SL-123-SA5DN-SB-2.5-3.5	16		26		36	
7	#1 MS (except Ti)	17		27		37	
8	↓ MSD	18		28		38	
9	pmp	19		29		39	
10		20		30		40	

Notes: _____

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE189
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6329374BKG Matrix Spike Lab Sample ID: 6329374MS Matrix Spike Duplicate Lab Sample ID: 6329374MSD
% Solids for Sample: 84.2
Batch Id(s): P18008C, P18026B, P18011B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		38385.4045		43534.4489		42597.2603		237.5297	232.8722	MG/KG	2168		1809		2			20	P
Antimony	121	0.3629		1.2928		1.6860		1.3837	1.3837	MG/KG	67	N	96		26	*	75 - 125	20	MS
Arsenic	75	8.5077		12.3884		14.2010		2.3061	2.3061	MG/KG	168	N	247	N	14		75 - 125	20	MS
Barium	137	177.2565		160.1596		160.7361		11.5306	11.5306	MG/KG	-148		-143		0			20	MS
Beryllium	9	1.1824		2.2736		2.5229		0.9224	0.9224	MG/KG	118		145	N	10		75 - 125	20	MS
Boron		13.7642		253.5333		247.6107		237.5297	232.8722	MG/KG	101		100		2		84 - 115	20	P
Cadmium	111	0.3026		2.1179		2.2595		1.1531	1.1531	MG/KG	157	N	170	N	6		75 - 125	20	MS
Calcium		5933.3135		6776.0428		6601.0200		475.0594	465.7445	MG/KG	177		143		3			20	P
Chromium	52	42.6868		55.9463		64.2022		11.5306	11.5306	MG/KG	115		187	N	14		75 - 125	20	MS
Cobalt	59	11.5613		95.2194		103.7290		57.6528	57.6528	MG/KG	145	N	160	N	9		75 - 125	20	MS
Copper	63	18.7671		36.5519		42.6400		11.5306	11.5306	MG/KG	154	N	207	N	15		75 - 125	20	MS
Iron		29778.3071		37515.1603		35278.8470		118.7648	116.4361	MG/KG	6514		4724		6			20	P
Lead	208	12.9180		16.9269		21.0963		3.4592	3.4592	MG/KG	116		236	N	22	*	75 - 125	20	MS
Lithium		32.3726		149.2221		148.4409		118.7648	116.4361	MG/KG	98		100		1		82 - 114	20	P
Magnesium		7920.7325		8760.8931		8546.8388		237.5297	232.8722	MG/KG	354		269		2			20	P
Manganese		218.1550		508.7482		363.4973		59.3824	58.2181	MG/KG	489	N	250	N	33	*	75 - 125	20	P
Mercury		0.0126	B	0.1902		0.2091		0.1933	0.1936	MG/KG	92		101		9		65 - 135	20	CV
Molybdenum	98	0.5264		16.6801		19.1707		11.5306	11.5306	MG/KG	140	N	162	N	14		75 - 125	20	MS
Nickel	60	27.1789		48.5437		52.8792		11.5306	11.5306	MG/KG	185	N	223	N	9		75 - 125	20	MS
Phosphorus		237.6804		479.6461		409.9972		118.7648	116.4361	MG/KG	204	N	148	N	16		75 - 125	20	P
Potassium		4130.0281		5951.2055		5810.2767		1187.6485	1164.3612	MG/KG	153	N	144	N	2		75 - 125	20	P
Selenium	78	0.0759	B	2.6036		2.9726		2.3061	2.3061	MG/KG	110		126	N	13		75 - 125	20	MS
Silver	107	0.0611	B	15.7554		18.1606		11.5306	11.5306	MG/KG	136	N	157	N	14		75 - 125	20	MS
Sodium		399.3571		1549.3159		1547.6585		1187.6485	1164.3612	MG/KG	97		99		0		75 - 125	20	P
Strontium		48.0644		163.3800		160.8321		118.7648	116.4361	MG/KG	97		97		2		75 - 115	20	P
Thallium	203	0.4933		1.0654		1.3189		0.4612	0.4612	MG/KG	124		179	N	21	*	75 - 125	20	MS
Tin		2.9691	B	412.1211		411.3851		475.0594	465.7445	MG/KG	86		88		0		80 - 110	20	P
Vanadium	51	77.7225		94.0202		99.5549		11.5306	11.5306	MG/KG	141		189		6			20	MS
Zinc	66	92.7279		116.6663		131.1717		11.5306	11.5306	MG/KG	208		333		12			20	MS
Zirconium		6.0993		120.6259		118.9884		118.7648	116.4361	MG/KG	96		97		1		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP/Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 7
LABORATORY CONTROL SAMPLE
SDG No.: DE189
Matrix: SOIL

Analyte	Mass	Lab Sample ID	Units	True	Found	C	Limit		%R	M	In Spec
Aluminum		P18008CQ	MG/KG	14146.0	15269.6		8676.7	15560.3	108	P	Yes
Antimony	121	P18026BQ	MG/KG	99.2	124.5		26.3	179.7	126	MS	Yes
Arsenic	75	P18026BQ	MG/KG	109.0	113.2		90.5	123.5	104	MS	Yes
Barium	137	P18026BQ	MG/KG	345.0	353.0		280.4	381.6	102	MS	Yes
Beryllium	9	P18026BQ	MG/KG	75.2	78.6		64.4	83.8	105	MS	Yes
Boron		P18008CQ	MG/KG	167.0	169.0		130.6	183.9	101	P	Yes
Cadmium	111	P18026BQ	MG/KG	244.0	265.8		200.0	288.0	109	MS	Yes
Calcium		P18008CQ	MG/KG	9858.0	9975.4		8634.5	10843.6	101	P	Yes
Chromium	52	P18026BQ	MG/KG	80.6	90.2		64.1	97.0	112	MS	Yes
Cobalt	59	P18026BQ	MG/KG	85.8	93.0		70.3	101.0	108	MS	Yes
Copper	63	P18026BQ	MG/KG	67.4	68.2		56.2	74.4	101	MS	Yes
Iron		P18008CQ	MG/KG	23615.0	25699.2		14448.8	25976.6	109	P	Yes
Lead	208	P18026BQ	MG/KG	111.0	118.5		91.9	122.1	107	MS	Yes
Lithium		P18008CQ	UG/L	1000.0	996.4		800.0	1200.0	100	P	Yes
Magnesium		P18008CQ	MG/KG	4434.0	4514.4		3649.7	4877.1	102	P	Yes
Manganese		P18008CQ	MG/KG	450.0	468.2		400.6	503.4	104	P	Yes
Mercury		P18011BQ	MG/KG	2.8	2.5		2.5	3.5	89	CV	Yes
Molybdenum	98	P18026BQ	MG/KG	47.2	54.3		36.8	57.5	115	MS	Yes
Nickel	60	P18026BQ	MG/KG	103.5	110.3		83.5	113.9	107	MS	Yes
Phosphorus		P18008CQ	UG/L	1000.0	1072.5		800.0	1200.0	107	P	Yes
Potassium		P18008CQ	MG/KG	5021.0	5016.2		3926.8	5523.2	100	P	Yes
Selenium	78	P18026BQ	MG/KG	183.0	203.5		151.6	202.4	111	MS	No
Silver	107	P18026BQ	MG/KG	48.0	50.3		39.0	53.4	105	MS	Yes
Sodium		P18008CQ	MG/KG	1099.0	1076.0		957.0	1209.1	98	P	Yes
Strontium		P18008CQ	MG/KG	105.6	106.5		90.4	116.2	101	P	Yes
Thallium	203	P18026BQ	MG/KG	286.0	296.3		237.4	314.6	104	MS	Yes
Tin		P18008CQ	MG/KG	180.0	183.3		161.3	204.7	102	P	Yes
Titanium		P19608BQ	MG/KG	359.0	563.7		144.0	667.0	157	P	Yes
Vanadium	51	P18026BQ	MG/KG	130.0	128.7		108.8	151.2	99	MS	Yes
Zinc	66	P18026BQ	MG/KG	390.0	407.9		317.4	438.6	105	MS	Yes
Zirconium		P18008CQ	UG/L	1000.0	1038.9		800.0	1200.0	104	P	Yes

DE189 2562

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	
AF = Cold Vapor Atomic Fluorescence	

SAMPLE DELIVERY GROUP

DE190

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3050B	6010B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3050B	6020	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3060A	7199	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3550B	8082	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3550B	8270C	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	3550B	8270C SIM	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	5035	8260B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	5035	8260B SIM	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	METHOD	300.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	METHOD	314.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0	6331376	N	METHOD	7471A	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3050B	6010B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3050B	6020	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3060A	7199	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3550B	8082	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3550B	8270C	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	3550B	8270C SIM	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	5035	8260B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	5035	8260B SIM	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	METHOD	300.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	METHOD	314.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331377	MS	METHOD	7471A	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331378	MS	3050B	6010B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	3050B	6010B	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	3050B	6020	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	METHOD	300.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	METHOD	314.0	III
28-Jun-2011	SL-116-SA5DN-SB-2.0-3.0DU	6331379	DUP	METHOD	7471A	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3050B	6010B	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3050B	6020	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3060A	7199	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3550B	8082	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3550B	8270C	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	3550B	8270C SIM	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	5035	8260B	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	5035	8260B SIM	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	METHOD	300.0	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	METHOD	314.0	III
28-Jun-2011	DUP18-SA5DN-QC-062811	6331384	FD	METHOD	7471A	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3050B	6010B	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3050B	6020	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3060A	7199	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3550B	8082	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3550B	8270C	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	3550B	8270C SIM	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	5035	8260B	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	5035	8260B SIM	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	METHOD	300.0	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	METHOD	314.0	III
28-Jun-2011	SL-131-SA5DN-SB-3.5-4.5	6331380	N	METHOD	7471A	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3050B	6020	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3060A	7199	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3546	1625C	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3550B	8015B	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3550B	8015M	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3550B	8082	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3550B	8270C	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	3550B	8270C SIM	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	5035	8015M	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	5035	8260B	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	5035	8260B SIM	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	8330	8330A	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	300.0	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	314.0	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	7471A	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	8015B	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	8015M	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	8315A	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0	6331381	N	METHOD	9012B	III
28-Jun-2011	SL-132-SA5DN-SB-4.0-5.0MS	P331381R320218A	MS	3550B	8015B	III
28-Jun-2011	TB-062811	6331385	TB	5030B	8015M	III
28-Jun-2011	TB-062811	6331385	TB	5030B	8260B	III
28-Jun-2011	TB-062811	6331385	TB	5030B	8260B SIM	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3050B	6010B	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3050B	6020	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3546	1625C	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3550B	8015B	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3550B	8015M	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3550B	8082	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3550B	8270C	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	3550B	8270C SIM	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	5035	8015M	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	5035	8260B	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	5035	8260B SIM	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	8330	8330A	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	300.0	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	314.0	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	7471A	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	8015B	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	8015M	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	8315A	III
28-Jun-2011	SL-141-SA5DN-SB-4.0-5.0	6331382	N	METHOD	9012B	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3050B	6010B	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3050B	6020	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3060A	7199	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3550B	8082	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3550B	8270C	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	3550B	8270C SIM	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	5035	8260B	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	5035	8260B SIM	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	METHOD	300.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	METHOD	314.0	III
28-Jun-2011	SL-143-SA5DN-SB-4.0-5.0	6331383	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.87	MDL	1.1	PQL	mg/Kg	J	Q, FD

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.9		0.86	MDL	1.1	PQL	mg/Kg	J	Q, FD

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.1		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	13.2		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.06	J	0.376	MDL	5.23	PQL	mg/Kg	J	Z
PHOSPHORUS	365		0.366	MDL	10.5	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1840		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.47	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	4.06	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.30	J	0.384	MDL	5.33	PQL	mg/Kg	J	Z
PHOSPHORUS	363		0.373	MDL	10.7	PQL	mg/Kg	J	Q, E
POTASSIUM	2320		12.0	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.51	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.95	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.95	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
PHOSPHORUS	215		0.387	MDL	11.1	PQL	mg/Kg	J	Q, E
POTASSIUM	1750		12.5	MDL	55.3	PQL	mg/Kg	J	Q
TIN	2.62	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.49	J	0.508	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.67	J	0.402	MDL	5.58	PQL	mg/Kg	J	Z
PHOSPHORUS	296		0.391	MDL	11.2	PQL	mg/Kg	J	Q, E
POTASSIUM	1520		12.6	MDL	55.8	PQL	mg/Kg	J	Q
TIN	2.65	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.99	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.73	J	0.395	MDL	5.49	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	355		0.384	MDL	11.0	PQL	mg/Kg	J	Q, E
POTASSIUM	2790		12.4	MDL	54.9	PQL	mg/Kg	J	Q
TIN	2.74	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.30	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	452		0.383	MDL	11.0	PQL	mg/Kg	J	Q, E
POTASSIUM	3220		12.4	MDL	54.8	PQL	mg/Kg	J	Q
TIN	3.53	J	0.350	MDL	11.0	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.128	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	130		0.111	MDL	0.418	PQL	mg/Kg	J	A

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0773	MDL	0.209	PQL	mg/Kg	UJ	B, Q
CHROMIUM	41.6		0.125	MDL	0.418	PQL	mg/Kg	J	Q, A
COBALT	10.4		0.0209	MDL	0.105	PQL	mg/Kg	J	A
COPPER	16.0		0.0836	MDL	0.418	PQL	mg/Kg	J	A
LEAD	8.55		0.0107	MDL	0.209	PQL	mg/Kg	J	Q, E, E, A
NICKEL	33.8		0.105	MDL	0.418	PQL	mg/Kg	J	Q, A
SILVER	0.183		0.0148	MDL	0.105	PQL	mg/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 ***Collected:*** 6/28/2011 9:55:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	83.9		0.0230	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-116-SA5DN-SB-2.0-3.0 ***Collected:*** 6/28/2011 9:50:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0624	MDL	0.431	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA5DN-SB-2.0-3.0 ***Collected:*** 6/28/2011 9:50:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	95.9		0.114	MDL	0.431	PQL	mg/Kg	J	A

Sample ID: SL-116-SA5DN-SB-2.0-3.0 ***Collected:*** 6/28/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.114	J	0.0797	MDL	0.215	PQL	mg/Kg	UJ	B, Q
CHROMIUM	26.1		0.129	MDL	0.431	PQL	mg/Kg	J	Q, A
COBALT	7.09		0.0215	MDL	0.108	PQL	mg/Kg	J	A
COPPER	12.2		0.0861	MDL	0.431	PQL	mg/Kg	J	A
LEAD	8.01		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E, E, A
NICKEL	20.7		0.108	MDL	0.431	PQL	mg/Kg	J	Q, A
SILVER	0.0883	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, FD
VANADIUM	51.9		0.0237	MDL	0.108	PQL	mg/Kg	J	A

Sample ID: SL-131-SA5DN-SB-3.5-4.5 ***Collected:*** 6/28/2011 12:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0962	J	0.0623	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-131-SA5DN-SB-3.5-4.5 ***Collected:*** 6/28/2011 12:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	89.1		0.114	MDL	0.429	PQL	mg/Kg	J	A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-131-SA5DN-SB-3.5-4.5 ***Collected:*** 6/28/2011 12:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0795	U	0.0795	MDL	0.215	PQL	mg/Kg	UJ	Q
CADMIUM	0.0645	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
CHROMIUM	26.2		0.129	MDL	0.429	PQL	mg/Kg	J	Q, A
COBALT	6.73		0.0215	MDL	0.107	PQL	mg/Kg	J	A
COPPER	8.07		0.0859	MDL	0.429	PQL	mg/Kg	J	A
LEAD	5.85		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E, E, A
NICKEL	15.2		0.107	MDL	0.429	PQL	mg/Kg	J	Q, A
SILVER	0.0602	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	49.4		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-132-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:09:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0846	J	0.0647	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:09:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	148		0.118	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: SL-132-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:09:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.134	J	0.0826	MDL	0.223	PQL	mg/Kg	UJ	B, Q
CHROMIUM	35.9		0.134	MDL	0.446	PQL	mg/Kg	J	Q, A
COBALT	13.4		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	14.8		0.0893	MDL	0.446	PQL	mg/Kg	J	A
LEAD	10.1		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, E, E, A
NICKEL	28.7		0.112	MDL	0.446	PQL	mg/Kg	J	Q, A
VANADIUM	78.4		0.0246	MDL	0.112	PQL	mg/Kg	J	A

Sample ID: SL-141-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:48:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-141-SA5DN-SB-4.0-5.0 **Collected:** 6/28/2011 2:48:00 **Analysis Type:** REA3 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.116	MDL	0.439	PQL	mg/Kg	J	A

Sample ID: SL-141-SA5DN-SB-4.0-5.0 **Collected:** 6/28/2011 2:48:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0812	U	0.0812	MDL	0.220	PQL	mg/Kg	UJ	Q
CHROMIUM	36.1		0.132	MDL	0.439	PQL	mg/Kg	J	Q, A
COBALT	10.7		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	17.5		0.0878	MDL	0.439	PQL	mg/Kg	J	A
LEAD	7.45		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E, E, A
NICKEL	25.2		0.110	MDL	0.439	PQL	mg/Kg	J	Q, A
VANADIUM	56.0		0.0241	MDL	0.110	PQL	mg/Kg	J	A

Sample ID: SL-143-SA5DN-SB-4.0-5.0 **Collected:** 6/28/2011 3:19:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.125	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5DN-SB-4.0-5.0 **Collected:** 6/28/2011 3:19:00 **Analysis Type:** REA3 **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	171		0.296	MDL	1.12	PQL	mg/Kg	J	A

Sample ID: SL-143-SA5DN-SB-4.0-5.0 **Collected:** 6/28/2011 3:19:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.159	J	0.0826	MDL	0.223	PQL	mg/Kg	UJ	B, Q
CHROMIUM	46.0		0.134	MDL	0.447	PQL	mg/Kg	J	Q, A
COBALT	9.96		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	30.2		0.0893	MDL	0.447	PQL	mg/Kg	J	A
LEAD	14.6		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, E, E, A
NICKEL	32.6		0.112	MDL	0.447	PQL	mg/Kg	J	Q, A
VANADIUM	96.0		0.0246	MDL	0.112	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0188	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

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

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0217	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0139	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix: SO**

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	24.3	J	18.6	MDL	37.2	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.58	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.0	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 Laboratory: LL

EDD Filename: DE190_v1 eQAPP Name: CDM_SSFL_110509

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

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

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	360	U	360	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	360	U	360	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	UJ	Q

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 12:15:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES-ACID *Dilution:* 1

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

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L

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

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.8	J	6.4	MDL	19	PQL	ug/Kg	J	Z, FD

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.8	J	6.4	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.4	U	6.4	MDL	19	PQL	ug/Kg	UJ	FD

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 12:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.6	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.6	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	0.83	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.7	MDL	20	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.90	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-octylphthalate	6.9	J	6.7	MDL	20	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.75	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* REA3 *Dilution:* 1

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

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	120	J	110	MDL	560	PQL	ug/Kg	U	B

Sample ID: SL-141-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:48:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	130	J	110	MDL	550	PQL	ug/Kg	U	B

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	25		6.5	MDL	7.7	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	12		0.23	MDL	3.9	PQL	ug/Kg	UJ	B, FD
TOLUENE	0.08	U	0.08	MDL	3.9	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory:** LL

EDD Filename: DE190_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-116-SA5DN-SB-2.0-3.0 ***Collected:*** 6/28/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	36		7.4	MDL	8.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	93		0.26	MDL	4.4	PQL	ug/Kg	J	FD
TOLUENE	0.1	J	0.09	MDL	4.4	PQL	ug/Kg	UJ	B, FD

Sample ID: SL-131-SA5DN-SB-3.5-4.5 ***Collected:*** 6/28/2011 12:15:00 ***Analysis Type:*** RES ***Dilution:*** 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	27		6.7	MDL	8.0	PQL	ug/Kg	U	B

Sample ID: SL-132-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:09:00 ***Analysis Type:*** RES ***Dilution:*** 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	27		6.5	MDL	7.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	17		0.23	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-141-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 2:48:00 ***Analysis Type:*** RES ***Dilution:*** 0.98

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	31		7.2	MDL	8.6	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-143-SA5DN-SB-4.0-5.0 ***Collected:*** 6/28/2011 3:19:00 ***Analysis Type:*** RES ***Dilution:*** 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	31		7.2	MDL	8.6	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	18		0.26	MDL	4.3	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE190

Method Blank Outlier Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18208BB221306	7/12/2011 1:06:00 PM	ALUMINUM	6.78 mg/Kg	DUP18-SA5DN-QC-062811
		CALCIUM	4.31 mg/Kg	SL-116-SA5DN-SB-2.0-3.0
		IRON	4.08 mg/Kg	SL-131-SA5DN-SB-3.5-4.5
		PHOSPHORUS	1.50 mg/Kg	SL-132-SA5DN-SB-4.0-5.0
		STRONTIUM	0.0250 mg/Kg	SL-141-SA5DN-SB-4.0-5.0
		TIN	1.64 mg/Kg	SL-143-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP18-SA5DN-QC-062811(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-141-SA5DN-SB-4.0-5.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	TIN	3.53 mg/Kg	3.53U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18226AB220627A	7/5/2011 6:27:00 AM	ANTIMONY	0.0870 mg/Kg	DUP18-SA5DN-QC-062811
		COPPER	0.0943 mg/Kg	SL-116-SA5DN-SB-2.0-3.0
		LEAD	0.0272 mg/Kg	SL-131-SA5DN-SB-3.5-4.5
		NICKEL	0.0977 mg/Kg	SL-132-SA5DN-SB-4.0-5.0
		VANADIUM	0.0531 mg/Kg	SL-141-SA5DN-SB-4.0-5.0
				SL-143-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP18-SA5DN-QC-062811(RES)	ANTIMONY	0.163 mg/Kg	0.163U mg/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	ANTIMONY	0.114 mg/Kg	0.114U mg/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.134 mg/Kg	0.134U mg/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.159 mg/Kg	0.159U mg/Kg

Method: **8015B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P81819AB322034A	6/30/2011 8:34:00 PM	METHANOL	100 ug/Kg	SL-132-SA5DN-SB-4.0-5.0
				SL-141-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-132-SA5DN-SB-4.0-5.0(REA4)	METHANOL	120 ug/Kg	560U ug/Kg
SL-141-SA5DN-SB-4.0-5.0(REA4)	METHANOL	130 ug/Kg	550U ug/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB05B210153A	7/1/2011 1:53:00 AM	ACETONE METHYLENE CHLORIDE TOLUENE	9.9 ug/Kg 2.0 ug/Kg 0.12 ug/Kg	DUP18-SA5DN-QC-062811 SL-116-SA5DN-SB-2.0-3.0 SL-131-SA5DN-SB-3.5-4.5 SL-132-SA5DN-SB-4.0-5.0 SL-141-SA5DN-SB-4.0-5.0 SL-143-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP18-SA5DN-QC-062811(RES)	ACETONE	25 ug/Kg	25U ug/Kg
DUP18-SA5DN-QC-062811(RES)	METHYLENE CHLORIDE	12 ug/Kg	12U ug/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	ACETONE	36 ug/Kg	36U ug/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	TOLUENE	0.1 ug/Kg	4.4U ug/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	ACETONE	27 ug/Kg	27U ug/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	ACETONE	27 ug/Kg	27U ug/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	17 ug/Kg	17U ug/Kg
SL-141-SA5DN-SB-4.0-5.0(RES)	ACETONE	31 ug/Kg	31U ug/Kg
SL-141-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.3U ug/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	ACETONE	31 ug/Kg	31U ug/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	18 ug/Kg	18U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-132-SA5DN -SB-4.0-5.0MS SL-132-SA5DN -SB-4.0-5.0MSD (SL-132-SA5DN -SB-4.0-5.0)	m-Terphenyl	68	71	75.00-125.00	-	m-Terphenyl	J (all detects) UJ (all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-116-SA5DN -SB-2.0-3.0MSD (SL-116-SA5DN -SB-2.0-3.0)	2,4-DINITROPHENOL BENZOIC ACID	- -	- -	20.00-143.00 10.00-173.00	33 (30.00) 38 (30.00)	2,4-DINITROPHENOL BENZOIC ACID	J(all detects)
SL-116-SA5DN -SB-2.0-3.0MSD (SL-116-SA5DN -SB-2.0-3.0)	BENZIDINE	-	21	35.00-141.00	75 (30.00)	BENZIDINE	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-116-SA5DN -SB-2.0-3.0MS SL-116-SA5DN -SB-2.0-3.0MSD (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	CHROMIUM NICKEL VANADIUM ZINC	- - 168 150	129 136 173 -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	CHROMIUM NICKEL VANADIUM ZINC	J(all detects) V,Zn, No Qual, >4x
SL-116-SA5DN -SB-2.0-3.0MS SL-116-SA5DN -SB-2.0-3.0MSD (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	ANTIMONY LEAD	29 -	24 28	75.00-125.00 75.00-125.00	- 21 (20.00)	ANTIMONY LEAD	J(all detects) R(all non-detects) Sb, J(all detects) UJ(all non-detects) Post Spike = 103%
SL-116-SA5DN -SB-2.0-3.0MS SL-116-SA5DN -SB-2.0-3.0MSD (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	BARIUM	197	165	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-116-SA5DN-SB-2.0-3.0MS SL-116-SA5DN-SB-2.0-3.0MSD (DUP18-SA5DN-QC-062811 SL-116-SA5DN-SB-2.0-3.0 SL-131-SA5DN-SB-3.5-4.5 SL-132-SA5DN-SB-4.0-5.0 SL-141-SA5DN-SB-4.0-5.0 SL-143-SA5DN-SB-4.0-5.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM TITANIUM	5323 314 5713 426 - 127 173	4288 334 5502 729 233 144 331	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE POTASSIUM TITANIUM	J(all detects) Al, Ca, Fe, Mg, Mn, Ti, No Qual, >4x
SL-116-SA5DN-SB-2.0-3.0MS SL-116-SA5DN-SB-2.0-3.0MSD (DUP18-SA5DN-QC-062811 SL-116-SA5DN-SB-2.0-3.0 SL-131-SA5DN-SB-3.5-4.5 SL-132-SA5DN-SB-4.0-5.0 SL-141-SA5DN-SB-4.0-5.0 SL-143-SA5DN-SB-4.0-5.0)	PHOSPHORUS	3	198	75.00-125.00	44 (20.00)	PHOSPHORUS	J(all detects) UJ(all non-detects) Post spike = 94%

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-116-SA5DN-SB-2.0-3.0MS (DUP18-SA5DN-QC-062811 SL-116-SA5DN-SB-2.0-3.0 SL-131-SA5DN-SB-3.5-4.5 SL-132-SA5DN-SB-4.0-5.0 SL-141-SA5DN-SB-4.0-5.0 SL-143-SA5DN-SB-4.0-5.0)	FLUORIDE	52	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-116-SA5DN-SB-2.0-3.0MS SL-116-SA5DN-SB-2.0-3.0MSD (SL-116-SA5DN-SB-2.0-3.0)	METHYLENE CHLORIDE	599	-204	61.00-141.00	120 (30.00)	METHYLENE CHLORIDE	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-116-SA5DN-SB-2.0-3.0DUP (DUP18-SA5DN-QC-062811 SL-116-SA5DN-SB-2.0-3.0 SL-131-SA5DN-SB-3.5-4.5 SL-132-SA5DN-SB-4.0-5.0 SL-141-SA5DN-SB-4.0-5.0 SL-143-SA5DN-SB-4.0-5.0)	ANTIMONY	23	20.00	J (all detects) UJ (all non-detects) Sb, Cd, Se, Ag, No Qual, Ok by Difference
	CADMIUM	32	20.00	
	LEAD	34	20.00	
	SELENIUM	29	20.00	
	SILVER	27	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE190 Laboratory: LL

EDD Filename: DE190_v1 eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY13Y211332A (TB-062811)	BROMOBENZENE	-	121	80.00-120.00	-	BROMOBENZENE	J(all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LBLCSQ260013 (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL	26 42	- -	37.00-120.00 53.00-110.00	- -	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P18226AQ220630A (DUP18 -SA5DN -QC-062811 SL -116-SA5DN -SB-2.0-3.0 SL -131-SA5DN -SB-3.5-4.5 SL -132-SA5DN -SB-4.0-5.0 SL -141-SA5DN -SB-4.0-5.0 SL -143-SA5DN -SB-4.0-5.0)	ANTIMONY	67	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: PrepDE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
MOISTURE	7.1	8.0	12		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
FLUORIDE	5.9	3.4	54	50.00	J(all detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
ALUMINUM	16700	20600	21	50.00	
BORON	4.30	4.06	6	50.00	
CALCIUM	3530	3880	9	50.00	
IRON	22200	25700	15	50.00	
LITHIUM	26.1	28.1	7	50.00	
MAGNESIUM	5180	5710	10	50.00	
MANGANESE	256	329	25	50.00	
PHOSPHORUS	363	365	1	50.00	No Qualifiers Applied
POTASSIUM	2320	1840	23	50.00	
SODIUM	150	193	25	50.00	
STRONTIUM	22.8	26.9	16	50.00	
TIN	2.51	2.47	2	50.00	
TITANIUM	1210	1180	3	50.00	
Zirconium	3.95	4.06	3	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
ANTIMONY	0.114	0.163	35	50.00	
ARSENIC	8.46	12.7	40	50.00	
BARIUM	95.9	130	30	50.00	
BERYLLIUM	0.675	0.817	19	50.00	
CADMIUM	0.117	0.170	37	50.00	
CHROMIUM	26.1	41.6	46	50.00	
COBALT	7.09	10.4	38	50.00	
COPPER	12.2	16.0	27	50.00	No Qualifiers Applied
LEAD	8.01	8.55	7	50.00	
MOLYBDENUM	0.329	0.538	48	50.00	
NICKEL	20.7	33.8	48	50.00	
SELENIUM	0.103	0.128	22	50.00	
THALLIUM	0.295	0.362	20	50.00	
VANADIUM	51.9	83.9	47	50.00	
ZINC	58.4	77.4	28	50.00	
SILVER	0.0883	0.183	70	50.00	J(all detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: PrepDE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
HEXAVALENT CHROMIUM	0.46	0.48	4	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
MERCURY	0.106 U	0.0188	200	50.00	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
ACETONE	36	25	36	50.00	No Qualifiers Applied
METHYLENE CHLORIDE	93	12	154	50.00	J(all detects)
TOLUENE	0.1	3.9 U	200	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
BIS(2-ETHYLHEXYL)PHTHALATE	6.8	7.6	11	50.00	No Qualifiers Applied
Di-n-octylphthalate	19 U	6.8	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
PH	7.87	6.48	19	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA5DN-SB-4.0-5.0	N-NITROSODIMETHYLAMINE	J	24.3	37.2	PQL	ng/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	BORON	J	4.06	5.23	PQL	mg/Kg	J (all detects)
	TIN	J	2.47	10.5	PQL	mg/Kg	
	Zirconium	J	4.06	5.23	PQL	mg/Kg	
SL-116-SA5DN-SB-2.0-3.0	BORON	J	4.30	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.51	10.7	PQL	mg/Kg	
	Zirconium	J	3.95	5.33	PQL	mg/Kg	
SL-131-SA5DN-SB-3.5-4.5	BORON	J	4.95	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	2.62	11.1	PQL	mg/Kg	
	Zirconium	J	3.49	5.53	PQL	mg/Kg	
SL-132-SA5DN-SB-4.0-5.0	BORON	J	4.67	5.58	PQL	mg/Kg	J (all detects)
	TIN	J	2.65	11.2	PQL	mg/Kg	
	Zirconium	J	2.99	5.58	PQL	mg/Kg	
SL-141-SA5DN-SB-4.0-5.0	BORON	J	4.73	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	2.74	11.0	PQL	mg/Kg	
	Zirconium	J	4.30	5.49	PQL	mg/Kg	
SL-143-SA5DN-SB-4.0-5.0	TIN	J	3.53	11.0	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	ANTIMONY	J	0.163	0.209	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.128	0.418	PQL	mg/Kg	
SL-116-SA5DN-SB-2.0-3.0	ANTIMONY	J	0.114	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.431	PQL	mg/Kg	
	SILVER	J	0.0883	0.108	PQL	mg/Kg	
SL-131-SA5DN-SB-3.5-4.5	CADMIUM	J	0.0645	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0962	0.429	PQL	mg/Kg	
	SILVER	J	0.0602	0.107	PQL	mg/Kg	
SL-132-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.134	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0846	0.446	PQL	mg/Kg	
SL-141-SA5DN-SB-4.0-5.0	SELENIUM	J	0.133	0.439	PQL	mg/Kg	J (all detects)
SL-143-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.159	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.125	0.447	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-116-SA5DN-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-131-SA5DN-SB-3.5-4.5	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)
SL-132-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-141-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.46	1.1	PQL	mg/Kg	J (all detects)
SL-143-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	MERCURY	J	0.0188	0.105	PQL	mg/Kg	J (all detects)
SL-141-SA5DN-SB-4.0-5.0	MERCURY	J	0.0217	0.108	PQL	mg/Kg	J (all detects)
SL-143-SA5DN-SB-4.0-5.0	MERCURY	J	0.0139	0.111	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA5DN-SB-4.0-5.0	METHANOL	J	120	560	PQL	ug/Kg	J (all detects)
SL-141-SA5DN-SB-4.0-5.0	METHANOL	J	130	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.58	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-141-SA5DN-SB-4.0-5.0	Aroclor 5460	J	2.0	3.6	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE190 **Laboratory: LL**

EDD Filename: DE190_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-116-SA5DN-SB-2.0-3.0	TOLUENE	J	0.1	4.4	PQL	ug/Kg	J (all detects)
SL-141-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.3	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	6.8	19	PQL	ug/Kg	
SL-116-SA5DN-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.8	19	PQL	ug/Kg	J (all detects)
SL-131-SA5DN-SB-3.5-4.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	20	PQL	ug/Kg	J (all detects)
SL-132-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	20	PQL	ug/Kg	J (all detects)
SL-141-SA5DN-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	1.6	1.8	PQL	ug/Kg	
SL-143-SA5DN-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	0.83	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	20	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.90	1.9	PQL	ug/Kg	
	Di-n-octylphthalate	J	6.9	20	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.75	1.9	PQL	ug/Kg	

LDC #: 26277T4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/3/11
SDG #: DE190 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	M. Gw
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW #	Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn.
VII.	Duplicate Sample Analysis	SW	Sb, Cd, Se, Ag <5X pb J/nJ
VIII.	Laboratory Control Samples (LCS)	~~SW~~ A	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Cu, Pb, Ni, V.
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-116-SA5DN-SB-2.0-3.0	11		21		31	
2	SL-131-SA5DN-SB-3.5-4.5	12		22		32	
3	SL-132-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-141-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-143-SA5DN-SB-4.0-5.0	15		25		35	
6	DUP18-SA5DN-QC-062811	16		26		36	
7	SL-116-SA5DN-SB-2.0-3.0MS	17		27		37	
8	SL-116-SA5DN-SB-2.0-3.0MSD	18		28		38	
9	SL-116-SA5DN-SB-2.0-3.0DUP	19		29		39	
10		20		30		40	

Notes: # Sb = post spike 103%, ~~Sb~~ D = 94%.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE190
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6331376BKG Matrix Spike Lab Sample ID: 6331377MS Matrix Spike Duplicate Lab Sample ID: 6331378MSD
% Solids for Sample: 92.9
Batch Id(s): P18208B, P18226A, P18211B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		16725.5497		27851.4814		25865.7899		209.0148	213.1537	MG/KG	5323		4288		7			20	P
Antimony	121	0.1143	B	0.4753		0.4173		1.2541	1.2664	MG/KG	29	N	24	N	13		75 - 125	20	MS
Arsenic	75	8.4586		10.8040		10.9183		2.0901	2.1106	MG/KG	112		117		1			20	MS
Barium	137	95.8665		116.4421		113.3202		10.4507	10.5532	MG/KG	197		165		3			20	MS
Beryllium	9	0.6749		1.5321		1.4173		0.8361	0.8443	MG/KG	103		88		8		75 - 125	20	MS
Boron		4.3046	B	217.3618		224.8964		209.0148	213.1537	MG/KG	102		103		3		84 - 115	20	P
Cadmium	111	0.1166		1.1462		1.2128		1.0451	1.0553	MG/KG	99		104		6		75 - 125	20	MS
Calcium		3526.7913		4838.8830		4952.0660		418.0296	426.3074	MG/KG	314		334		2			20	P
Chromium	52	26.1141		38.2288		39.6800		10.4507	10.5532	MG/KG	116		129	N	4		75 - 125	20	MS
Cobalt	59	7.0915		56.2041		60.7653		52.2537	52.7660	MG/KG	94		102		8		75 - 125	20	MS
Copper	63	12.2282		22.7408		21.5918		10.4507	10.5532	MG/KG	101		89		5		75 - 125	20	MS
Iron		22153.4163		28124.1935		28017.5852		104.5074	106.5769	MG/KG	5713		5502		0			20	P
Lead	208	8.0065		10.9963		8.8963		3.1352	3.1660	MG/KG	95		28	N	21	*	75 - 125	20	MS
Lithium		26.0655		136.7772		138.9496		104.5074	106.5769	MG/KG	106		106		2		82 - 114	20	P
Magnesium		5175.8348		6066.7886		6729.5623		209.0148	213.1537	MG/KG	426		729		10			20	P
Manganese		256.2129		318.0150		380.2449		52.2537	53.2884	MG/KG	118		233		18			20	P
Mercury		0.0076	U	0.1934		0.1738		0.1791	0.1761	MG/KG	108		99		11		65 - 135	20	CV
Molybdenum	98	0.3285		9.9596		10.8065		10.4507	10.5532	MG/KG	92		99		8		75 - 125	20	MS
Nickel	60	20.6954		33.7768		35.0366		10.4507	10.5532	MG/KG	125		136	N	4		75 - 125	20	MS
Phosphorus		363.2011		366.3925		574.3363		104.5074	106.5769	MG/KG	3	N	198	N	44	*	75 - 125	20	P
Potassium		2315.3641		3642.6223		3844.8998		1045.0740	1065.7686	MG/KG	127	N	144	N	5		75 - 125	20	P
Selenium	78	0.1033	B	2.1633		2.2499		2.0901	2.1106	MG/KG	99		102		4		75 - 125	20	MS
Silver	107	0.0883	B	10.1518		11.3088		10.4507	10.5532	MG/KG	96		106		11		75 - 125	20	MS
Sodium		149.6787		1189.7823		1249.6243		1045.0740	1065.7686	MG/KG	100		103		5		75 - 125	20	P
Strontium		22.7947		131.2853		133.1273		104.5074	106.5769	MG/KG	104		104		1		75 - 115	20	P
Thallium	203	0.2952		0.7038		0.7248		0.4180	0.4221	MG/KG	98		102		3		75 - 125	20	MS
Tin		2.5120	B	354.6009		364.8627		418.0296	426.3074	MG/KG	84		85		3		80 - 110	20	P
Titanium		1209.8989		1390.7521		1562.7322		104.5074	106.5769	MG/KG	173		331		12			20	P
Vanadium	51	51.9268		69.4974		70.1366		10.4507	10.5532	MG/KG	168		173		1			20	MS
Zinc	66	58.4069		74.1167		70.7698		10.4507	10.5532	MG/KG	150		117		5			20	MS
Zirconium		3.9455	B	102.2229		105.9459		104.5074	106.5769	MG/KG	94		96		4		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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

Sb = post spike 103% J/UJ
P: 94%

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE190
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6331376BKG
% Solids for Duplicate: 93.8
Batch ID(s): P18208B, P18226A, P18211B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6331379DUP
% Solids for Sample: 92.9

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			16725.5497		14996.6990		11		P
Antimony	121		0.1143	B	0.0910	B	23		MS
Arsenic	75		8.4586		7.1804		16		MS
Barium	137		95.8665		92.9315		3		MS
Beryllium	9		0.6749		0.6062		11		MS
Boron			4.3046	B	4.0577	B	6		P
Cadmium	111	0.1	0.1166		0.0840	B	33		MS
Calcium			3526.7913		3563.3994		1		P
Chromium	52		26.1141		22.7738		14		MS
Cobalt	59		7.0915		7.8178		10		MS
Copper	63		12.2282		11.3637		7		MS
Iron			22153.4163		21162.8696		5		P
Lead	208		8.0065		5.6818		34	*	MS
Lithium			26.0655		25.8469		1		P
Magnesium			5175.8348		5112.2079		1		P
Manganese			256.2129		260.6429		2		P
Mercury			0.0076	U	0.0075	U			CV
Molybdenum	98	0.1	0.3285		0.3168		4		MS
Nickel	60		20.6954		18.2866		12		MS
Phosphorus			363.2011		407.2469		11		P
Potassium			2315.3641		2374.4549		3		P
Selenium	78		0.1033	B	0.0768	B	29		MS
Silver	107		0.0883	B	0.0671	B	27		MS
Sodium		106.6	149.6787		145.6510		3		P
Strontium			22.7947		20.8405		9		P
Thallium	203	0.1	0.2952		0.2784		6		MS
Tin			2.5120	B	2.4167	B	4		P
Titanium			1209.8989		1233.7154		2		P
Vanadium	51		51.9268		44.5767		15		MS
Zinc	66		58.4069		56.6285		3		MS
Zirconium			3.9455	B	3.9300	B	0		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE190 3543

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE190
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6331376BKG Serial Dilution Lab Sample ID: 6331376L
Batch ID(s): P18208B, P18226A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		156934.1600		146767.9500		6		P
Antimony	121	0.5311	B	1.8500	U	100		MS
Arsenic	75	39.2900		54.8000		39		MS
Barium	137	445.3000		613.0000		38	E	MS
Beryllium	9	3.1350		4.1930		34		MS
Boron		40.3900	B	49.9000	B	24		P
Cadmium	111	0.5415		1.1000	U	100		MS
Calcium		33091.5300		35077.9500		6		P
Chromium	52	121.3000		194.2000		60	E	MS
Cobalt	59	32.9400		62.2500		89	E	MS
Copper	63	56.8000		91.0500		60	E	MS
Iron		207863.2900		209219.1500		1		P
Lead	208	37.1900		52.7000		42	E	MS
Lithium		244.5700		248.3500		2		P
Magnesium		48564.3400		49458.6000		2		P
Manganese		2404.0200		2501.0000		4		P
Molybdenum	98	1.5260		4.9455		224		MS
Nickel	60	96.1300		141.8500		48	E	MS
Phosphorus		3407.8800		3400.9500		0		P
Potassium		21724.8300		21398.9000		2		P
Selenium	78	0.4800	B	1.4500	U	100		MS
Silver	107	0.4102	B	2.9225		612		MS
Sodium		1404.4200		1377.1000	B	2		P
Strontium		213.8800		212.5500		1		P
Thallium	203	1.3710		1.7465	B	27		MS
Tin		23.5700	B	21.2000	B	10		P
Titanium		11352.3600		11863.5000		5		P
Vanadium	51	241.2000		338.6000		40	E	MS
Zinc	66	271.3000		389.5000		44		MS
Zirconium		37.0200	B	54.1000	B	46		P

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

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE191

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3050B	6010B	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3050B	6020	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3060A	7199	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3550B	8082	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3550B	8270C	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	3550B	8270C SIM	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	5035	8260B	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	5035	8260B SIM	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	METHOD	300.0	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	METHOD	314.0	III
29-Jun-2011	SL-154-SA5DN-SB-4.0-5.0	6332110	N	METHOD	7471A	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3050B	6010B	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3050B	6020	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3060A	7199	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3550B	8082	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3550B	8270C	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	3550B	8270C SIM	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	METHOD	300.0	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	METHOD	314.0	III
29-Jun-2011	SL-154-SA5DN-SB-9.0-10.0	6332111	N	METHOD	7471A	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3050B	6010B	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3050B	6020	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3060A	7199	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3550B	8082	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3550B	8270C	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	5035	8260B	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	5035	8260B SIM	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	METHOD	300.0	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	METHOD	314.0	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	METHOD	6850	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5	6332109	N	METHOD	7471A	III
29-Jun-2011	SL-152-SA5DN-SB-2.5-3.5MS	P332109R241534A	MS	METHOD	6850	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3050B	6010B	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3050B	6020	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3060A	7199	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3550B	8082	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3550B	8270C	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	3550B	8270C SIM	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	5035	8260B	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	5035	8260B SIM	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	METHOD	300.0	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	METHOD	314.0	III
29-Jun-2011	SL-129-SA5DN-SB-2.5-3.5	6332108	N	METHOD	7471A	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3005A	6010B	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3020A	6020	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3510C	8015B	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3510C	8015M	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3510C	8082	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3510C	8270C	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3510C	8270C SIM	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	3520C	1625C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	5030B	8015M	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	5030B	8260B	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	5030B	8260B SIM	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	8330	8330A	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	Gen Prep	300.0	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	Gen Prep	314.0	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	Gen Prep	7199	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	Gen Prep	8015B	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	Gen Prep	8015M	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	METHOD	7470A	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	METHOD	8315A	III
29-Jun-2011	EB20-SA5DN-SB-062911	6332115	EB	METHOD	9012B	III
29-Jun-2011	EB20-SA5DN-SB-062911MSD	P332115M322230A	MSD	Gen Prep	8015B	III
29-Jun-2011	EB20-SA5DN-SB-062911MS	P332115R322215A	MS	Gen Prep	8015B	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3050B	6010B	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3050B	6020	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3060A	7199	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3550B	8082	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3550B	8270C	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	3550B	8270C SIM	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	5035	8260B	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	5035	8260B SIM	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	METHOD	300.0	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	METHOD	314.0	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0	6332107	N	METHOD	7471A	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0DU	P332107D270739A	DUP	METHOD	300.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0DU	P332107D272004B	DUP	METHOD	314.0	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0MS	P332107R270753A	MS	METHOD	300.0	III
29-Jun-2011	SL-128-SA5DN-SB-4.0-5.0MS	P332107R272027B	MS	METHOD	314.0	III
29-Jun-2011	TB-062911	6332114	TB	5030B	8260B	III
29-Jun-2011	TB-062911	6332114	TB	5030B	8260B SIM	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3050B	6010B	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3050B	6020	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3060A	7199	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3550B	8082	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3550B	8270C	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	3550B	8270C SIM	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	5035	8260B	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	5035	8260B SIM	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	METHOD	300.0	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	METHOD	314.0	III
29-Jun-2011	SL-165-SA5DN-SB-4.0-5.0	6332112	N	METHOD	7471A	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3050B	6010B	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3050B	6020	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3060A	7199	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3550B	8082	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3550B	8270C	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	3550B	8270C SIM	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	METHOD	300.0	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	METHOD	314.0	III
29-Jun-2011	SL-165-SA5DN-SB-9.0-10.0	6332113	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE191 Laboratory: LL

EDD Filename: PrepDE191 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-128-SA5DN-SB-4.0-5.0 **Collected:** 6/29/2011 11:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-129-SA5DN-SB-2.5-3.5 **Collected:** 6/29/2011 10:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-152-SA5DN-SB-2.5-3.5 **Collected:** 6/29/2011 9:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.6		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-154-SA5DN-SB-4.0-5.0 **Collected:** 6/29/2011 7:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-154-SA5DN-SB-9.0-10.0 **Collected:** 6/29/2011 7:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-165-SA5DN-SB-4.0-5.0 **Collected:** 6/29/2011 2:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-165-SA5DN-SB-9.0-10.0 **Collected:** 6/29/2011 2:55:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.2		0.85	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

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

Sample ID: **EB20-SA5DN-SB-062911** ***Collected:*** **6/29/2011 11:00:00** ***Analysis Type:*** **REA2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0058	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00063	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: **METALS**

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

Sample ID: **SL-128-SA5DN-SB-4.0-5.0** ***Collected:*** **6/29/2011 11:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.36	J	0.397	MDL	5.52	PQL	mg/Kg	J	Z
SODIUM	95.8	J	6.57	MDL	110	PQL	mg/Kg	J	Z
TIN	2.81	J	0.353	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.74	J	0.508	MDL	5.52	PQL	mg/Kg	J	Z

Sample ID: **SL-129-SA5DN-SB-2.5-3.5** ***Collected:*** **6/29/2011 10:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.57	J	0.374	MDL	5.19	PQL	mg/Kg	J	Z
TIN	2.47	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.93	J	0.478	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: **SL-152-SA5DN-SB-2.5-3.5** ***Collected:*** **6/29/2011 9:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.52	J	0.355	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: **SL-154-SA5DN-SB-4.0-5.0** ***Collected:*** **6/29/2011 7:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.70	J	0.361	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	4.07	J	0.519	MDL	5.64	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.80	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.31	J	0.511	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.26	J	0.394	MDL	5.48	PQL	mg/Kg	J	Z
TIN	2.69	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.53	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.98	J	0.367	MDL	5.09	PQL	mg/Kg	J	Z
TIN	2.24	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	4.49	J	0.469	MDL	5.09	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-128-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 11:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0588	J	0.0490	MDL	0.111	PQL	mg/Kg	J	Z
SILVER	0.0548	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-129-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 10:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0597	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-129-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 10:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0884	J	0.0761	MDL	0.206	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-129-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 10:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0387	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 9:25:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.424	J	0.0618	MDL	0.426	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 9:25:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.126	J	0.0789	MDL	0.213	PQL	mg/Kg	U	B
SILVER	0.0718	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0655	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0835	MDL	0.226	PQL	mg/Kg	U	B

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0807	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0765	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z
SILVER	0.0749	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0623	MDL	0.430	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0952	J	0.0795	MDL	0.215	PQL	mg/Kg	U	B
SILVER	0.0685	J	0.0153	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0591	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0818	J	0.0754	MDL	0.204	PQL	mg/Kg	U	B
SILVER	0.0916	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7199 **Matrix: AQ**

Sample ID: EB20-SA5DN-SB-062911 *Collected:* 6/29/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	5.0	U	5.0	MDL	10.0	PQL	ug/L	UJ	H

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-128-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-129-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.38	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.73	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0114	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0095	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-165-SA5DN-SB-9.0-10.0 **Collected: 6/29/2011 2:55:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0134	J	0.0072	MDL	0.103	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: AQ**

Sample ID: EB20-SA5DN-SB-062911 **Collected: 6/29/2011 11:00:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	L
Propylene glycol	20	U	20	MDL	200	PQL	mg/L	UJ	L

Sample ID: EB20-SA5DN-SB-062911 **Collected: 6/29/2011 11:00:00** **Analysis Type: REA2** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	H
EFH (C15-C20)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	H
EFH (C21-C30)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	H
EFH (C30-C40)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	H
EFH (C8-C11)	0.10	U	0.10	MDL	0.61	PQL	mg/L	UJ	H

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-129-SA5DN-SB-2.5-3.5 **Collected: 6/29/2011 10:50:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.67	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 **Collected: 6/29/2011 2:55:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory:** LL

EDD Filename: PrepDE191 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-128-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 11:55:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: SL-129-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 10:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	350	U	350	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	18	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 9:25:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory:** LL

EDD Filename: PrepDE191 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* RES-ACID *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	3500	U	3500	MDL	11000	PQL	ug/Kg	UJ	L
4,6-DINITRO-2-METHYLPHENOL	1800	U	1800	MDL	5300	PQL	ug/Kg	UJ	L

Method Category: SVOA

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

Sample ID: EB20-SA5DN-SB-062911 *Collected:* 6/29/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.021	J	0.020	MDL	0.099	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.44	J	0.099	MDL	2.0	PQL	ug/L	UJ	L, E, B
Butylbenzylphthalate	0.18	J	0.099	MDL	2.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.20	J	0.099	MDL	2.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.35	J	0.099	MDL	2.0	PQL	ug/L	J	Z

Method Category: SVOA

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

Sample ID: SL-128-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 11:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 9:25:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.4	J	6.5	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	6.9	J	6.8	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory:** LL

EDD Filename: PrepDE191 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.95	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
CHRYSENE	1.5	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix:** AQ

Sample ID: EB20-SA5DN-SB-062911 *Collected:* 6/29/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3,5-TRINITROBENZENE	0.20	U	0.20	MDL	0.60	PQL	ug/L	UJ	E
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	L, E

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-128-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 11:55:00 *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	21		6.5	MDL	7.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.0		0.23	MDL	3.9	PQL	ug/Kg	U	B, F
TOLUENE	0.14	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method Category: **VOA**

Method: **8260B** ***Matrix:*** **SO**

Sample ID: **SL-129-SA5DN-SB-2.5-3.5** ***Collected:*** **6/29/2011 10:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.89**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	22		6.3	MDL	7.5	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	12		0.23	MDL	3.8	PQL	ug/Kg	U	B, F
TOLUENE	0.24	J	0.08	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: **SL-152-SA5DN-SB-2.5-3.5** ***Collected:*** **6/29/2011 9:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.91**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	20		6.8	MDL	8.1	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	6.0		0.24	MDL	4.1	PQL	ug/Kg	U	B, F
TOLUENE	0.12	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: **SL-154-SA5DN-SB-4.0-5.0** ***Collected:*** **6/29/2011 7:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.81**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	16		6.2	MDL	7.4	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	2.5	J	0.22	MDL	3.7	PQL	ug/Kg	U	B, F
TOLUENE	0.09	J	0.07	MDL	3.7	PQL	ug/Kg	U	B

Sample ID: **SL-165-SA5DN-SB-4.0-5.0** ***Collected:*** **6/29/2011 2:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.91**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	21		6.8	MDL	8.2	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	5.5		0.24	MDL	4.1	PQL	ug/Kg	U	B, F
TOLUENE	0.11	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE191

QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: DE191 **Laboratory: LL**
EDD Filename: PrepDE191 **eQAPP Name: CDM_SSFL_110509**

Method: 7199 **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB20-SA5DN-SB-062911 (RES)	Sampling To Analysis	25.00	24.00	HOURS	J (all detects) UJ (all non-detects)

Method: 8015M **Preparation Method: Gen Prep**
Matrix: AQ

Sample ID	Type	Actual	Criteria	Units	Flag
EB20-SA5DN-SB-062911 (REA2)	Sampling To Analysis	8.00	7.00	DAYS	J(all detects) UJ(all non-detects)

Method Blank Outlier Report

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18848GB220221	7/14/2011 2:21:00 AM	BORON CALCIUM IRON MAGNESIUM STRONTIUM	0.0093 mg/L 0.112 mg/L 0.0202 mg/L 0.0082 mg/L 0.00067 mg/L	EB20-SA5DN-SB-062911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB20-SA5DN-SB-062911(REA2)	BORON	0.0058 mg/L	0.0058U mg/L
EB20-SA5DN-SB-062911(REA2)	STRONTIUM	0.00063 mg/L	0.00063U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18208BB221306	7/12/2011 1:06:00 PM	ALUMINUM CALCIUM IRON PHOSPHORUS STRONTIUM TIN	6.78 mg/Kg 4.31 mg/Kg 4.08 mg/Kg 1.50 mg/Kg 0.0250 mg/Kg 1.64 mg/Kg	SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-128-SA5DN-SB-4.0-5.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-165-SA5DN-SB-9.0-10.0(RES)	TIN	2.24 mg/Kg	2.24U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18226AB220627A	7/5/2011 6:27:00 AM	ANTIMONY COPPER LEAD NICKEL VANADIUM	0.0870 mg/Kg 0.0943 mg/Kg 0.0272 mg/Kg 0.0977 mg/Kg 0.0531 mg/Kg	SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-129-SA5DN-SB-2.5-3.5(RES)	ANTIMONY	0.0884 mg/Kg	0.0884U mg/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	ANTIMONY	0.126 mg/Kg	0.126U mg/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.102 mg/Kg	0.102U mg/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.0952 mg/Kg	0.0952U mg/Kg
SL-165-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.0818 mg/Kg	0.0818U mg/Kg

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB07B211240A	7/5/2011 12:40:00 PM	ACETONE METHYLENE CHLORIDE TOLUENE	11 ug/Kg 1.6 ug/Kg 0.13 ug/Kg	SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-128-SA5DN-SB-4.0-5.0(RES)	ACETONE	21 ug/Kg	21U ug/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.0 ug/Kg	7.0U ug/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.14 ug/Kg	3.9U ug/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	ACETONE	22 ug/Kg	22U ug/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	12 ug/Kg	12U ug/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	TOLUENE	0.24 ug/Kg	3.8U ug/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	ACETONE	20 ug/Kg	20U ug/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	6.0 ug/Kg	6.0U ug/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	TOLUENE	0.12 ug/Kg	4.1U ug/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	ACETONE	16 ug/Kg	16U ug/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.5 ug/Kg	3.7U ug/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	3.7U ug/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	ACETONE	21 ug/Kg	21U ug/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	5.5 ug/Kg	5.5U ug/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.11 ug/Kg	4.1U ug/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC18B260159	7/12/2011 1:59:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	0.19 ug/L	EB20-SA5DN-SB-062911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB20-SA5DN-SB-062911(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.44 ug/L	2.0U ug/L

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB20-SA5DN-SB-062911 (RES)	6/29/2011 11:00:00 AM	METHYLENE CHLORIDE	5 ug/L	SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-128-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.0 ug/Kg	7.0U ug/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	12 ug/Kg	12U ug/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	METHYLENE CHLORIDE	6.0 ug/Kg	6.0U ug/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	2.5 ug/Kg	3.7U ug/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	5.5 ug/Kg	5.5U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE191 Laboratory: LL

EDD Filename: DE191_v1. eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-128-SA5DN-SB-4.0-5.0MS (SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0)	FLUORIDE	53	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11830AQ241844A (EB20-SA5DN-SB-062911)	Aroclor 5442	92	-	35.00-84.00	-	Aroclor 5432, Aroclor 5442, Aroclor 5460	J (all detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11869AQ240015A P11869AY240057A (EB20-SA5DN-SB-062911)	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	J(all detects)
P11869AQ240015A P11869AY240057A (EB20-SA5DN-SB-062911)	1,3,5-TRINITROBENZENE Tetryl	- 47	- 67	53.00-129.00 72.00-141.00	39 (30.00) 35 (30.00)	1,3,5-TRINITROBENZENE Tetryl	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11873AQ321604A P11873AY321617A (EB20-SA5DN-SB-062911)	ETHYLENE GLYCOL Propylene glycol	76 70	76 75	80.00-124.00 80.00-120.00	- -	ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P3WCLCSQ260230 P3WCLCSY260303 (EB20-SA5DN-SB-062911)	BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE	126 131	133 140	69.00-123.00 59.00-130.00	- -	BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE	J(all detects)
P3WCLCSQ260230 P3WCLCSY260303 (EB20-SA5DN-SB-062911)	BIS(2-ETHYLHEXYL)PHTHALAT	225	-	57.00-154.00	69 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY13Y211332A (EB20-SA5DN-SB-062911 TB-062911)	BROMOBENZENE	-	121	80.00-120.00	-	BROMOBENZENE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P1LBLCSQ260013 (SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL	26 42	- -	37.00-120.00 53.00-110.00	- -	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P18226AQ220630A (SL-128-SA5DN-SB-4.0-5.0 SL-129-SA5DN-SB-2.5-3.5 SL-152-SA5DN-SB-2.5-3.5 SL-154-SA5DN-SB-4.0-5.0 SL-154-SA5DN-SB-9.0-10.0 SL-165-SA5DN-SB-4.0-5.0 SL-165-SA5DN-SB-9.0-10.0)	ANTIMONY	67	-	80.00-120.00	-	ANTIMONY	No qual, SRM within QC limits

Reporting Limit Outliers

Lab Reporting Batch ID: DE191 | Laboratory: LL

EDD Filename: DE191_v1. | eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB20-SA5DN-SB-062911	BORON	J	0.0058	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00063	0.0050	PQL	mg/L	

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB20-SA5DN-SB-062911	2-METHYLNAPHTHALENE	J	0.021	0.099	PQL	ug/L	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.44	2.0	PQL	ug/L	
	Butylbenzylphthalate	J	0.18	2.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.20	2.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.35	2.0	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	BORON	J	4.36	5.52	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.8	110	PQL	mg/Kg	
	TIN	J	2.81	11.0	PQL	mg/Kg	
	Zirconium	J	3.74	5.52	PQL	mg/Kg	
SL-129-SA5DN-SB-2.5-3.5	BORON	J	3.57	5.19	PQL	mg/Kg	J (all detects)
	TIN	J	2.47	10.4	PQL	mg/Kg	
	Zirconium	J	2.93	5.19	PQL	mg/Kg	
SL-152-SA5DN-SB-2.5-3.5	TIN	J	2.52	11.1	PQL	mg/Kg	J (all detects)
SL-154-SA5DN-SB-4.0-5.0	TIN	J	2.70	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.07	5.64	PQL	mg/Kg	
SL-154-SA5DN-SB-9.0-10.0	TIN	J	2.80	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.31	5.56	PQL	mg/Kg	
SL-165-SA5DN-SB-4.0-5.0	BORON	J	5.26	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	11.0	PQL	mg/Kg	
	Zirconium	J	3.53	5.48	PQL	mg/Kg	
SL-165-SA5DN-SB-9.0-10.0	BORON	J	4.98	5.09	PQL	mg/Kg	J (all detects)
	TIN	J	2.24	10.2	PQL	mg/Kg	
	Zirconium	J	4.49	5.09	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	CADMIUM	J	0.0588	0.111	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0548	0.111	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-129-SA5DN-SB-2.5-3.5	ANTIMONY	J	0.0884	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.411	PQL	mg/Kg	
	SILVER	J	0.0387	0.103	PQL	mg/Kg	
SL-152-SA5DN-SB-2.5-3.5	ANTIMONY	J	0.126	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.424	0.426	PQL	mg/Kg	
	SILVER	J	0.0718	0.107	PQL	mg/Kg	
SL-154-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.102	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.452	PQL	mg/Kg	
SL-154-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0765	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0807	0.449	PQL	mg/Kg	
	SILVER	J	0.0749	0.112	PQL	mg/Kg	
SL-165-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0952	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.430	PQL	mg/Kg	
	SILVER	J	0.0685	0.107	PQL	mg/Kg	
SL-165-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.0818	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.407	PQL	mg/Kg	
	SILVER	J	0.0916	0.102	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-129-SA5DN-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.38	1.1	PQL	mg/Kg	J (all detects)
SL-152-SA5DN-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.43	1.1	PQL	mg/Kg	J (all detects)
SL-154-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.1	PQL	mg/Kg	J (all detects)
SL-154-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.46	1.2	PQL	mg/Kg	J (all detects)
SL-165-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.73	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-152-SA5DN-SB-2.5-3.5	MERCURY	J	0.0114	0.104	PQL	mg/Kg	J (all detects)
SL-165-SA5DN-SB-4.0-5.0	MERCURY	J	0.0095	0.108	PQL	mg/Kg	J (all detects)
SL-165-SA5DN-SB-9.0-10.0	MERCURY	J	0.0134	0.103	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE191 **Laboratory: LL**

EDD Filename: DE191_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-129-SA5DN-SB-2.5-3.5	AROCLOR 1254	J	0.67	1.8	PQL	ug/Kg	J (all detects)
SL-165-SA5DN-SB-9.0-10.0	AROCLOR 1260	J	1.3	1.8	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	TOLUENE	J	0.14	3.9	PQL	ug/Kg	J (all detects)
SL-129-SA5DN-SB-2.5-3.5	TOLUENE	J	0.24	3.8	PQL	ug/Kg	J (all detects)
SL-152-SA5DN-SB-2.5-3.5	TOLUENE	J	0.12	4.1	PQL	ug/Kg	J (all detects)
SL-154-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	2.5 0.09	3.7 3.7	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-165-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.1	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-129-SA5DN-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	350	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	21	PQL	ug/Kg	J (all detects)
SL-152-SA5DN-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.4	20	PQL	ug/Kg	J (all detects)
SL-154-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.9	20	PQL	ug/Kg	J (all detects)
SL-154-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	21	PQL	ug/Kg	J (all detects)
SL-165-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	20	PQL	ug/Kg	J (all detects)
SL-165-SA5DN-SB-9.0-10.0	BENZO(A)ANTHRACENE BENZO(G,H,I)PERYLENE BENZO(K)FLUORANTHENE CHRYSENE INDENO(1,2,3-CD)PYRENE PHENANTHRENE	J J J J J J	1.3 1.3 0.95 1.5 1.1 1.1	1.7 1.7 1.7 1.7 1.7 1.7	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)

LDC #: 26407M4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE191 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: CC
2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	No quals
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	CS
VII.	Duplicate Sample Analysis	N	↓
VIII.	Laboratory Control Samples (LCS)	~~A~~	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=8

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

Validated Samples:

1	SL-128-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-129-SA5DN-SB-2.5-3.5	12		22		32	
3	SL-152-SA5DN-SB-2.5-3.5	13		23		33	
4	SL-154-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-154-SA5DN-SB-9.0-10.0	15		25		35	
6	SL-165-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-165-SA5DN-SB-9.0-10.0	17		27		37	
8	EB20-SA5DN-SB-062911	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26407M4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: CR
2nd Reviewer: MG

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 6/29/11 Soil factor applied 100x (Hg: 167x)
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification												
	8	Action Level	No Quals											
B	5.8	2.9												
Sr	0.63	0.315												

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

SAMPLE DELIVERY GROUP

DE192

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3060A	7199	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3550B	8082	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3550B	8270C	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	3550B	8270C SIM	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	5035	8260B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	5035	8260B SIM	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	METHOD	300.0	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	METHOD	314.0	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333520	N	METHOD	7471A	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220053	DUP	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220712	DUP	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220920A	DUP	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220920B	DUP	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220920C	DUP	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D220920D	DUP	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D221821	DUP	METHOD	7471A	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D271301A	DUP	METHOD	300.0	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0DU	P333520D271600A	DUP	3060A	7199	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R220057	MS	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R220717	MS	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R221027A	MS	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R221027B	MS	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R221027C	MS	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R221027D	MS	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R221823	MS	METHOD	7471A	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R241813A	MS	3550B	8082	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R260033	MS	3550B	8270C	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R262109	MS	3550B	8270C SIM	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R271316A	MS	METHOD	300.0	III
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0MS	P333520R271523A	MS	3060A	7199	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3050B	6010B	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3050B	6020	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3060A	7199	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3550B	8082	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3550B	8270C	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	3550B	8270C SIM	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	METHOD	300.0	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	METHOD	314.0	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	METHOD	6850	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333521	N	METHOD	7471A	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0D	P333521D272119A	DUP	METHOD	314.0	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0M	P333521R272142A	MS	METHOD	314.0	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3050B	6010B	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3050B	6020	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3060A	7199	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3550B	8082	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3550B	8270C	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	3550B	8270C SIM	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	5035	8260B	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	5035	8260B SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	METHOD	300.0	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	METHOD	314.0	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333522	N	METHOD	7471A	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3050B	6010B	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3050B	6020	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3060A	7199	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3550B	8082	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3550B	8270C	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	3550B	8270C SIM	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	METHOD	300.0	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	METHOD	314.0	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333523	N	METHOD	7471A	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3050B	6010B	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3050B	6020	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3060A	7199	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3550B	8082	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3550B	8270C	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	3550B	8270C SIM	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	5035	8260B	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	5035	8260B SIM	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	METHOD	300.0	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	METHOD	314.0	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333524	N	METHOD	7471A	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3050B	6010B	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3050B	6020	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3550B	8082	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3550B	8270C	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	3550B	8270C SIM	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	METHOD	300.0	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	METHOD	314.0	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333525	N	METHOD	7471A	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3050B	6010B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3050B	6020	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3060A	7199	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3546	1625C	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3550B	8015B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3550B	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3550B	8082	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3550B	8270C	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	3550B	8270C SIM	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	5035	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	5035	8260B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	5035	8260B SIM	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	8330	8330A	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	300.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	314.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	6850	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	7471A	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	8015B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	8315A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333530	N	METHOD	9012B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0DU	P333530D270242B	DUP	METHOD	314.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0DU	P333530D272318B	DUP	METHOD	300.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0MS	P333530R261548	MS	3546	1625C	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0MS	P333530R270305B	MS	METHOD	314.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0MS	P333530R272333B	MS	METHOD	300.0	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0MS	P333530R321722A	MS	METHOD	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0MS	P333530R322030A	MS	METHOD	8015B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3050B	6010B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3050B	6020	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3060A	7199	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3546	1625C	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3550B	8015B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3550B	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3550B	8082	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3550B	8270C	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	3550B	8270C SIM	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	5035	8015M	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	5035	8260B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	5035	8260B SIM	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	8330	8330A	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	300.0	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	314.0	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	7471A	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	8015B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	8315A	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333531	N	METHOD	9012B	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3050B	6010B	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3050B	6020	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3060A	7199	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3550B	8082	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3550B	8270C	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	3550B	8270C SIM	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	5035	8260B	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	5035	8260B SIM	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	METHOD	300.0	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	METHOD	314.0	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333528	N	METHOD	7471A	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3050B	6010B	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3050B	6020	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3060A	7199	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3550B	8082	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3550B	8270C	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	3550B	8270C SIM	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	METHOD	300.0	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	METHOD	314.0	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333529	N	METHOD	7471A	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3050B	6010B	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3050B	6020	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3060A	7199	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3550B	8270C	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	3550B	8270C SIM	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	5035	8260B	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	5035	8260B SIM	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	METHOD	300.0	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	METHOD	314.0	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333532	N	METHOD	7471A	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3050B	6010B	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3050B	6020	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3060A	7199	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3550B	8082	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3550B	8270C	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	3550B	8270C SIM	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	METHOD	300.0	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	METHOD	314.0	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333533	N	METHOD	7471A	III
30-Jun-2011	TB-063011	6333534	TB	5030B	8015M	III
30-Jun-2011	TB-063011	6333534	TB	5030B	8260B	III
30-Jun-2011	TB-063011	6333534	TB	5030B	8260B SIM	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3050B	6010B	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3050B	6020	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3060A	7199	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3550B	8082	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3550B	8270C	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	3550B	8270C SIM	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	5035	8260B	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	5035	8260B SIM	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	METHOD	300.0	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	METHOD	314.0	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333526	N	METHOD	7471A	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3050B	6010B	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3050B	6020	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3060A	7199	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3550B	8082	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3550B	8270C	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	3550B	8270C SIM	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	METHOD	300.0	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	METHOD	314.0	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333527	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	9.6		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.7		0.95	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.93	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 Matrix: SO

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-196-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.0		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.96	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	1.7	J	0.96	MDL	1.8	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 1:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	9.1		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B Matrix: SO

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.57	J	0.350	MDL	10.9	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	5.21	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.14	J	0.371	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	4.48	J	0.533	MDL	5.79	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.76	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.95	J	0.514	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.62	J	0.371	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	4.62	J	0.533	MDL	5.79	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.47	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	3.75	J	0.515	MDL	5.60	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.66	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	5.15	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	106	J	6.62	MDL	111	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.59	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.71	J	0.512	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	99.9	J	6.81	MDL	114	PQL	mg/Kg	J	Z
TIN	2.77	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.55	J	0.526	MDL	5.72	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.81	J	0.355	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-196-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	112	J	6.81	MDL	114	PQL	mg/Kg	J	Z
TIN	2.89	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	5.25	J	0.527	MDL	5.72	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.61	J	0.373	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	5.00	J	0.536	MDL	5.82	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.80	J	0.370	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	5.34	J	0.532	MDL	5.79	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 1:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.51	J	0.368	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.20	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.73	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.31	J	0.511	MDL	5.56	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0647	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	94.5		0.118	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0826	MDL	0.223	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	11.4		0.0893	MDL	0.446	PQL	mg/Kg	J	A
CADMIUM	0.200		0.0491	MDL	0.112	PQL	mg/Kg	J	E
CHROMIUM	35.0		0.134	MDL	0.446	PQL	mg/Kg	J	Q, A
COBALT	10.4		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	15.2		0.0893	MDL	0.446	PQL	mg/Kg	J	Q, A
LEAD	7.87		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, A
NICKEL	20.5		0.112	MDL	0.446	PQL	mg/Kg	J	Q, A
SILVER	0.0381	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	66.5		0.0246	MDL	0.112	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.270	J	0.0679	MDL	0.468	PQL	mg/Kg	J	Z

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	140		0.124	MDL	0.468	PQL	mg/Kg	J	A

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.460		0.0866	MDL	0.234	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	11.9		0.0936	MDL	0.468	PQL	mg/Kg	J	A
CADMIUM	0.390		0.0515	MDL	0.117	PQL	mg/Kg	J	E
CHROMIUM	44.1		0.140	MDL	0.468	PQL	mg/Kg	J	Q, A
COBALT	11.3		0.0234	MDL	0.117	PQL	mg/Kg	J	A
COPPER	20.6		0.0936	MDL	0.468	PQL	mg/Kg	J	Q, A
LEAD	10.6		0.0119	MDL	0.234	PQL	mg/Kg	J	Q, A
NICKEL	23.8		0.117	MDL	0.468	PQL	mg/Kg	J	Q, A
SILVER	0.0476	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	85.9		0.0257	MDL	0.117	PQL	mg/Kg	J	A

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.241	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	172		0.117	MDL	0.443	PQL	mg/Kg	J	A

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.274		0.0819	MDL	0.221	PQL	mg/Kg	UJ	Q, E, B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	10.2		0.0885	MDL	0.443	PQL	mg/Kg	J	A
CADMIUM	0.368		0.0487	MDL	0.111	PQL	mg/Kg	J	E
CHROMIUM	51.1		0.133	MDL	0.443	PQL	mg/Kg	J	Q, A
COBALT	14.0		0.0221	MDL	0.111	PQL	mg/Kg	J	A
COPPER	21.6		0.0885	MDL	0.443	PQL	mg/Kg	J	Q, A
LEAD	11.7		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, A
NICKEL	30.9		0.111	MDL	0.443	PQL	mg/Kg	J	Q, A
VANADIUM	88.3		0.0243	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0672	MDL	0.463	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	145		0.123	MDL	0.463	PQL	mg/Kg	J	A

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.329		0.0857	MDL	0.232	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	12.2		0.0927	MDL	0.463	PQL	mg/Kg	J	A
CADMIUM	0.406		0.0510	MDL	0.116	PQL	mg/Kg	J	E
CHROMIUM	57.6		0.139	MDL	0.463	PQL	mg/Kg	J	Q, A
COBALT	17.0		0.0232	MDL	0.116	PQL	mg/Kg	J	A
COPPER	25.4		0.0927	MDL	0.463	PQL	mg/Kg	J	Q, A
LEAD	13.4		0.0118	MDL	0.232	PQL	mg/Kg	J	Q, A
NICKEL	35.2		0.116	MDL	0.463	PQL	mg/Kg	J	Q, A
SILVER	0.0687	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z
VANADIUM	103		0.0255	MDL	0.116	PQL	mg/Kg	J	A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.288	J	0.0656	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	202		0.120	MDL	0.452	PQL	mg/Kg	J	A

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.397		0.0836	MDL	0.226	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	12.5		0.0904	MDL	0.452	PQL	mg/Kg	J	A
CADMIUM	0.588		0.0497	MDL	0.113	PQL	mg/Kg	J	E
CHROMIUM	59.7		0.136	MDL	0.452	PQL	mg/Kg	J	Q, A
COBALT	17.2		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	28.7		0.0904	MDL	0.452	PQL	mg/Kg	J	Q, A
LEAD	17.0		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, A
NICKEL	37.2		0.113	MDL	0.452	PQL	mg/Kg	J	Q, A
SILVER	0.0888	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	110		0.0249	MDL	0.113	PQL	mg/Kg	J	A

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 9:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.124	J	0.0652	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 9:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	201		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 9:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.314		0.0831	MDL	0.225	PQL	mg/Kg	UJ	Q, E, B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 9:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	13.2		0.0899	MDL	0.449	PQL	mg/Kg	J	A
CADMIUM	0.250		0.0494	MDL	0.112	PQL	mg/Kg	J	E
CHROMIUM	52.1		0.135	MDL	0.449	PQL	mg/Kg	J	Q, A
COBALT	18.3		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	21.5		0.0899	MDL	0.449	PQL	mg/Kg	J	Q, A
LEAD	13.6		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	32.7		0.112	MDL	0.449	PQL	mg/Kg	J	Q, A
VANADIUM	95.8		0.0247	MDL	0.112	PQL	mg/Kg	J	A

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.141	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	198		0.119	MDL	0.449	PQL	mg/Kg	J	A

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.323		0.0831	MDL	0.225	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	7.72		0.0898	MDL	0.449	PQL	mg/Kg	J	A
CADMIUM	0.442		0.0494	MDL	0.112	PQL	mg/Kg	J	E
CHROMIUM	50.8		0.135	MDL	0.449	PQL	mg/Kg	J	Q, A
COBALT	16.0		0.0225	MDL	0.112	PQL	mg/Kg	J	A
COPPER	23.9		0.0898	MDL	0.449	PQL	mg/Kg	J	Q, A
LEAD	12.6		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	30.8		0.112	MDL	0.449	PQL	mg/Kg	J	Q, A
SILVER	0.0539	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	95.1		0.0247	MDL	0.112	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0827	J	0.0677	MDL	0.467	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	194		0.124	MDL	0.467	PQL	mg/Kg	J	A

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.330		0.0863	MDL	0.233	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	11.5		0.0933	MDL	0.467	PQL	mg/Kg	J	A
CADMIUM	0.193		0.0513	MDL	0.117	PQL	mg/Kg	J	E
CHROMIUM	54.7		0.140	MDL	0.467	PQL	mg/Kg	J	Q, A
COBALT	19.5		0.0233	MDL	0.117	PQL	mg/Kg	J	A
COPPER	27.7		0.0933	MDL	0.467	PQL	mg/Kg	J	Q, A
LEAD	13.3		0.0119	MDL	0.233	PQL	mg/Kg	J	Q, A
NICKEL	35.9		0.117	MDL	0.467	PQL	mg/Kg	J	Q, A
SILVER	0.0786	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	102		0.0257	MDL	0.117	PQL	mg/Kg	J	A

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0637	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	157		0.116	MDL	0.440	PQL	mg/Kg	J	A

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0813	MDL	0.220	PQL	mg/Kg	UJ	Q, E, B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.87		0.0879	MDL	0.440	PQL	mg/Kg	J	A
CADMIUM	0.297		0.0484	MDL	0.110	PQL	mg/Kg	J	E
CHROMIUM	40.0		0.132	MDL	0.440	PQL	mg/Kg	J	Q, A
COBALT	12.8		0.0220	MDL	0.110	PQL	mg/Kg	J	A
COPPER	18.8		0.0879	MDL	0.440	PQL	mg/Kg	J	Q, A
LEAD	10.4		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, A
NICKEL	23.5		0.110	MDL	0.440	PQL	mg/Kg	J	Q, A
SILVER	0.0604	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	67.0		0.0242	MDL	0.110	PQL	mg/Kg	J	A

Sample ID: SL-196-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:50:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0989	J	0.0657	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: SL-196-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	187		0.120	MDL	0.453	PQL	mg/Kg	J	A

Sample ID: SL-196-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.398		0.0839	MDL	0.227	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	10.3		0.0907	MDL	0.453	PQL	mg/Kg	J	A
CADMIUM	0.259		0.0499	MDL	0.113	PQL	mg/Kg	J	E
CHROMIUM	60.5		0.136	MDL	0.453	PQL	mg/Kg	J	Q, A
COBALT	15.3		0.0227	MDL	0.113	PQL	mg/Kg	J	A
COPPER	26.3		0.0907	MDL	0.453	PQL	mg/Kg	J	Q, A
LEAD	13.0		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, A
NICKEL	31.0		0.113	MDL	0.453	PQL	mg/Kg	J	Q, A
VANADIUM	109		0.0249	MDL	0.113	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0669	MDL	0.461	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	154		0.122	MDL	0.461	PQL	mg/Kg	J	A

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.288		0.0854	MDL	0.231	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	6.40		0.0923	MDL	0.461	PQL	mg/Kg	J	A
CADMIUM	0.371		0.0507	MDL	0.115	PQL	mg/Kg	J	E
CHROMIUM	45.3		0.138	MDL	0.461	PQL	mg/Kg	J	Q, A
COBALT	13.7		0.0231	MDL	0.115	PQL	mg/Kg	J	A
COPPER	21.6		0.0923	MDL	0.461	PQL	mg/Kg	J	Q, A
LEAD	11.3		0.0118	MDL	0.231	PQL	mg/Kg	J	Q, A
NICKEL	26.5		0.115	MDL	0.461	PQL	mg/Kg	J	Q, A
SILVER	0.0502	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	83.6		0.0254	MDL	0.115	PQL	mg/Kg	J	A

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	139		0.124	MDL	0.467	PQL	mg/Kg	J	A

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.218	J	0.0865	MDL	0.234	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	6.88		0.0935	MDL	0.467	PQL	mg/Kg	J	A
CADMIUM	0.0942	J	0.0514	MDL	0.117	PQL	mg/Kg	J	Z, E
CHROMIUM	45.2		0.140	MDL	0.467	PQL	mg/Kg	J	Q, A
COBALT	9.78		0.0234	MDL	0.117	PQL	mg/Kg	J	A
COPPER	19.9		0.0935	MDL	0.467	PQL	mg/Kg	J	Q, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	10.4		0.0119	MDL	0.234	PQL	mg/Kg	J	Q, A
NICKEL	20.6		0.117	MDL	0.467	PQL	mg/Kg	J	Q, A
SILVER	0.0682	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	79.5		0.0257	MDL	0.117	PQL	mg/Kg	J	A

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 1:55:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 1:55:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	150		0.119	MDL	0.451	PQL	mg/Kg	J	A

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 1:55:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.195	J	0.0834	MDL	0.225	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	6.59		0.0902	MDL	0.451	PQL	mg/Kg	J	A
CADMIUM	0.258		0.0496	MDL	0.113	PQL	mg/Kg	J	E
CHROMIUM	44.2		0.135	MDL	0.451	PQL	mg/Kg	J	Q, A
COBALT	13.4		0.0225	MDL	0.113	PQL	mg/Kg	J	A
COPPER	20.5		0.0902	MDL	0.451	PQL	mg/Kg	J	Q, A
LEAD	10.4		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, A
NICKEL	26.1		0.113	MDL	0.451	PQL	mg/Kg	J	Q, A
SILVER	0.0459	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	79.8		0.0248	MDL	0.113	PQL	mg/Kg	J	A

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.121	MDL	0.458	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0847	MDL	0.229	PQL	mg/Kg	UJ	Q, E, B
ARSENIC	7.85		0.0916	MDL	0.458	PQL	mg/Kg	J	A
CADMIUM	0.0908	J	0.0504	MDL	0.114	PQL	mg/Kg	J	Z, E
CHROMIUM	42.1		0.137	MDL	0.458	PQL	mg/Kg	J	Q, A
COBALT	7.10		0.0229	MDL	0.114	PQL	mg/Kg	J	A
COPPER	17.0		0.0916	MDL	0.458	PQL	mg/Kg	J	Q, A
LEAD	9.49		0.0117	MDL	0.229	PQL	mg/Kg	J	Q, A
NICKEL	19.2		0.114	MDL	0.458	PQL	mg/Kg	J	Q, A
SILVER	0.0183	J	0.0163	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	75.5		0.0252	MDL	0.114	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.62	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.54	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.74	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.62	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.88	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.63	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 1:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0102	J	0.0081	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0174	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0119	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

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

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	7.0	J	5.9	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.76	J	0.47	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	1.8		0.47	MDL	1.4	PQL	mg/Kg	U	B

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.95	J	0.48	MDL	1.4	PQL	mg/Kg	J	Z

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

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.66	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.7	MDL	20	PQL	ug/Kg	U	B

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.3	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.1	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.5	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.7	J	7.1	MDL	21	PQL	ug/Kg	U	B
CHRYSENE	1.6	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
PHENANTHRENE	1.7	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.8	MDL	20	PQL	ug/Kg	U	B

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	7.2	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 9:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	7.0	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.61	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.8	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory:** LL

EDD Filename: DE192_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.5	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.5	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.9	MDL	21	PQL	ug/Kg	U	B
FLUORANTHENE	0.90	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	0.80	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	1.1	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
ANTHRACENE	0.45	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.7	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.6	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.2	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
CHRYSENE	1.4	J	0.40	MDL	2.0	PQL	ug/Kg	J	Z
FLUORANTHENE	0.81	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.92	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 1:55:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.6	J	6.9	MDL	21	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.9	MDL	21	PQL	ug/Kg	U	B

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.12	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.17	J	0.11	MDL	4.5	PQL	ug/Kg	J	Z
TOLUENE	0.12	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.12	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.11	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES *Dilution:* 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.15	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	7.7		0.24	MDL	4.1	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: **SL-197-SA5DN-SB-4.0-5.0** ***Collected:*** **6/30/2011 11:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.86**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.11	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: **SL-197-SA5DN-SB-9.0-10.0** ***Collected:*** **6/30/2011 11:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.83**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	7.7		0.24	MDL	4.0	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: **SL-203-SA5DN-SB-4.0-5.0** ***Collected:*** **6/30/2011 1:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.94**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	10		0.26	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE192

Method Blank Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18708AB220948	7/14/2011 9:48:00 AM	ALUMINUM BORON CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	16.6 mg/Kg 1.17 mg/Kg 22.7 mg/Kg 8.96 mg/Kg 1.36 mg/Kg 0.0690 mg/Kg 1.55 mg/Kg 0.121 mg/Kg 1.93 mg/Kg	SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0
P19608AB220656	7/16/2011 6:56:00 AM	TITANIUM	0.0760 mg/Kg	SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-181-SA5DN-SB-4.0-5.0(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	TIN	2.14 mg/Kg	2.14U mg/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	TIN	2.76 mg/Kg	2.76U mg/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	TIN	2.47 mg/Kg	2.47U mg/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	TIN	2.51 mg/Kg	2.51U mg/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18726AB220902A	7/7/2011 9:02:00 AM	ANTIMONY	0.112 mg/Kg	SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-181-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.190 mg/Kg	0.190U mg/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.460 mg/Kg	0.460U mg/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.274 mg/Kg	0.274U mg/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.329 mg/Kg	0.329U mg/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.397 mg/Kg	0.397U mg/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.314 mg/Kg	0.314U mg/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.323 mg/Kg	0.323U mg/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.330 mg/Kg	0.330U mg/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.109 mg/Kg	0.109U mg/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.398 mg/Kg	0.398U mg/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.288 mg/Kg	0.288U mg/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.218 mg/Kg	0.218U mg/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	ANTIMONY	0.195 mg/Kg	0.195U mg/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	ANTIMONY	0.190 mg/Kg	0.190U mg/Kg

Method: **8015M**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P86863AB320154A	7/8/2011 1:54:00 AM	EFH (C30-C40)	1.5 mg/Kg	SL-197-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-197-SA5DN-SB-4.0-5.0(REA2)	EFH (C30-C40)	1.8 mg/Kg	1.8U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB10B210829A	7/7/2011 8:29:00 AM	METHYLENE CHLORIDE	1.1 ug/Kg	SL-181-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-197-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.7 ug/Kg	7.7U ug/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	7.7 ug/Kg	7.7U ug/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	10 ug/Kg	10U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC18B260749	7/13/2011 7:49:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE	6.7 ug/Kg	SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-181-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	14 ug/Kg	20U ug/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.7 ug/Kg	21U ug/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	15 ug/Kg	20U ug/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	21U ug/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.0 ug/Kg	21U ug/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.4 ug/Kg	21U ug/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	21U ug/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.6 ug/Kg	21U ug/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	11 ug/Kg	21U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-197-SA5DN-SB-4.0-5.0MS SL-197-SA5DN-SB-4.0-5.0MSD (SL-197-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL	52	-	59.00-109.00	24 (20.00)	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-181-SA5DN-SB-4.0-5.0MS SL-181-SA5DN-SB-4.0-5.0MSD (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	ARSENIC CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	- - - - - 141 -	129 177 138 140 143 222 156	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - -	ARSENIC CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	J(all detects) As, V, Zn, No Qual, >4x
SL-181-SA5DN-SB-4.0-5.0MS SL-181-SA5DN-SB-4.0-5.0MSD (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	ANTIMONY CADMIUM	41 -	61 -	75.00-125.00 75.00-125.00	32 (20.00) 22 (20.00)	ANTIMONY CADMIUM	J(all detects) UJ(all non-detects)
SL-181-SA5DN-SB-4.0-5.0MSD (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	BARIUM	-	205	75.00-125.00	-	BARIUM	No Qual, >4x

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-181-SA5DN-SB-4.0-5.0MS **SL-181-SA5DN-SB-4.0-5.0MSD** (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	ALUMINUM	1039	919	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-181-SA5DN-SB-4.0-5.0MS **SL-181-SA5DN-SB-4.0-5.0MSD** (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	CALCIUM IRON	-401 -2587	-494 -1781	75.00-125.00 75.00-125.00	- -	CALCIUM IRON	No Qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-181-SA5DN-SB-4.0-5.0MS (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0)	FLUORIDE	72	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
SL-197-SA5DN-SB-4.0-5.0MS (SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	FLUORIDE	60	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-181-SA5DN-SB-4.0-5.0MS **SL-181-SA5DN-SB-4.0-5.0MSD** (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	TITANIUM	252	319	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-181-SA5DN-SB-4.0-5.0DUP (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0)	FLUORIDE	23	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-181-SA5DN-SB-4.0-5.0DUP (SL-181-SA5DN-SB-4.0-5.0 SL-181-SA5DN-SB-9.0-10.0 SL-182-SA5DN-SB-4.0-5.0 SL-182-SA5DN-SB-9.0-10.0 SL-184-SA5DN-SB-4.0-5.0 SL-184-SA5DN-SB-9.0-10.0 SL-187-SA5DN-SB-4.0-5.0 SL-187-SA5DN-SB-9.0-10.0 SL-196-SA5DN-SB-4.0-5.0 SL-196-SA5DN-SB-9.0-10.0 SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	ANTIMONY SILVER	29 24	20.00 20.00	No Qual, OK by Difference

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-197-SA5DN-SB-4.0-5.0DUP (SL-197-SA5DN-SB-4.0-5.0 SL-197-SA5DN-SB-9.0-10.0 SL-203-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SB-9.0-10.0)	FLUORIDE	44	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE192 Laboratory: LL

EDD Filename: DE192_v1. eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11891AQ241717A P11891AY241736A (SL-181-SA5DN -SB-4.0-5.0 SL -181-SA5DN -SB-9.0-10.0 SL -182-SA5DN -SB-4.0-5.0 SL -182-SA5DN -SB-9.0-10.0 SL -184-SA5DN -SB-4.0-5.0 SL -184-SA5DN -SB-9.0-10.0 SL -187-SA5DN -SB-4.0-5.0 SL -187-SA5DN -SB-9.0-10.0 SL -196-SA5DN -SB-4.0-5.0 SL -196-SA5DN -SB-9.0-10.0 SL -197-SA5DN -SB-4.0-5.0 SL -197-SA5DN -SB-9.0-10.0 SL -203-SA5DN -SB-4.0-5.0 SL -203-SA5DN -SB-9.0-10.0)	Aroclor 5442	121	126	36.00-106.00	-	Aroclor 5432, 5442, 5460	J (all detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P18726AQ220905A (SL-181-SA5DN -SB-4.0-5.0 SL -181-SA5DN -SB-9.0-10.0 SL -182-SA5DN -SB-4.0-5.0 SL -182-SA5DN -SB-9.0-10.0 SL -184-SA5DN -SB-4.0-5.0 SL -184-SA5DN -SB-9.0-10.0 SL -187-SA5DN -SB-4.0-5.0 SL -187-SA5DN -SB-9.0-10.0 SL -196-SA5DN -SB-4.0-5.0 SL -196-SA5DN -SB-9.0-10.0 SL -197-SA5DN -SB-4.0-5.0 SL -197-SA5DN -SB-9.0-10.0 SL -203-SA5DN -SB-4.0-5.0 SL -203-SA5DN -SB-9.0-10.0)	ANTIMONY	124	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19608AQ220659 (SL-181-SA5DN -SB-4.0-5.0 SL -181-SA5DN -SB-9.0-10.0 SL -182-SA5DN -SB-4.0-5.0 SL -182-SA5DN -SB-9.0-10.0 SL -184-SA5DN -SB-4.0-5.0 SL -184-SA5DN -SB-9.0-10.0 SL -187-SA5DN -SB-4.0-5.0 SL -187-SA5DN -SB-9.0-10.0 SL -196-SA5DN -SB-4.0-5.0 SL -196-SA5DN -SB-9.0-10.0 SL -197-SA5DN -SB-4.0-5.0 SL -197-SA5DN -SB-9.0-10.0 SL -203-SA5DN -SB-4.0-5.0 SL -203-SA5DN -SB-9.0-10.0)	TITANIUM	180	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-197-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.7	1.8	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	TIN	J	2.57	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.21	5.47	PQL	mg/Kg	
SL-181-SA5DN-SB-9.0-10.0	TIN	J	2.14	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.48	5.79	PQL	mg/Kg	
SL-182-SA5DN-SB-4.0-5.0	TIN	J	2.76	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.95	5.59	PQL	mg/Kg	
SL-182-SA5DN-SB-9.0-10.0	TIN	J	2.62	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.62	5.79	PQL	mg/Kg	
SL-184-SA5DN-SB-4.0-5.0	TIN	J	2.47	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.75	5.60	PQL	mg/Kg	
SL-184-SA5DN-SB-9.0-10.0	TIN	J	2.66	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.15	5.67	PQL	mg/Kg	
SL-187-SA5DN-SB-4.0-5.0	SODIUM	J	106	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.59	11.1	PQL	mg/Kg	
	Zirconium	J	4.71	5.56	PQL	mg/Kg	
SL-187-SA5DN-SB-9.0-10.0	SODIUM	J	99.9	114	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	11.4	PQL	mg/Kg	
	Zirconium	J	4.55	5.72	PQL	mg/Kg	
SL-196-SA5DN-SB-4.0-5.0	TIN	J	2.81	11.1	PQL	mg/Kg	J (all detects)
SL-196-SA5DN-SB-9.0-10.0	SODIUM	J	112	114	PQL	mg/Kg	J (all detects)
	TIN	J	2.89	11.4	PQL	mg/Kg	
	Zirconium	J	5.25	5.72	PQL	mg/Kg	
SL-197-SA5DN-SB-4.0-5.0	TIN	J	2.61	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.00	5.82	PQL	mg/Kg	
SL-197-SA5DN-SB-9.0-10.0	TIN	J	2.80	11.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.34	5.79	PQL	mg/Kg	
SL-203-SA5DN-SB-4.0-5.0	TIN	J	2.51	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.20	5.75	PQL	mg/Kg	
SL-203-SA5DN-SB-9.0-10.0	TIN	J	2.73	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.31	5.56	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.190	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.446	PQL	mg/Kg	
	SILVER	J	0.0381	0.112	PQL	mg/Kg	
SL-181-SA5DN-SB-9.0-10.0	SELENIUM	J	0.270	0.468	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0476	0.117	PQL	mg/Kg	
SL-182-SA5DN-SB-4.0-5.0	SELENIUM	J	0.241	0.443	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-182-SA5DN-SB-9.0-10.0	SELENIUM	J	0.210	0.463	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0687	0.116	PQL	mg/Kg	
SL-184-SA5DN-SB-4.0-5.0	SELENIUM	J	0.288	0.452	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0888	0.113	PQL	mg/Kg	
SL-184-SA5DN-SB-9.0-10.0	SELENIUM	J	0.124	0.449	PQL	mg/Kg	J (all detects)
SL-187-SA5DN-SB-4.0-5.0	SELENIUM	J	0.141	0.449	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0539	0.112	PQL	mg/Kg	
SL-187-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0827	0.467	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0786	0.117	PQL	mg/Kg	
SL-196-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.109	0.220	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.118	0.440	PQL	mg/Kg	
	SILVER	J	0.0604	0.110	PQL	mg/Kg	
SL-196-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0989	0.453	PQL	mg/Kg	J (all detects)
SL-197-SA5DN-SB-4.0-5.0	SELENIUM	J	0.148	0.461	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0502	0.115	PQL	mg/Kg	
SL-197-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.218	0.234	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0942	0.117	PQL	mg/Kg	
	SILVER	J	0.0682	0.117	PQL	mg/Kg	
SL-203-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.195	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.133	0.451	PQL	mg/Kg	
	SILVER	J	0.0459	0.113	PQL	mg/Kg	
SL-203-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.190	0.229	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0908	0.114	PQL	mg/Kg	
	SILVER	J	0.0183	0.114	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-182-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.62	1.2	PQL	mg/Kg	J (all detects)
SL-184-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)
SL-184-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.54	1.2	PQL	mg/Kg	J (all detects)
SL-187-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.74	1.1	PQL	mg/Kg	J (all detects)
SL-187-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.62	1.2	PQL	mg/Kg	J (all detects)
SL-197-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.88	1.2	PQL	mg/Kg	J (all detects)
SL-197-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.63	1.2	PQL	mg/Kg	J (all detects)
SL-203-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-184-SA5DN-SB-9.0-10.0	MERCURY	J	0.0102	0.116	PQL	mg/Kg	J (all detects)
SL-187-SA5DN-SB-9.0-10.0	MERCURY	J	0.0174	0.112	PQL	mg/Kg	J (all detects)
SL-197-SA5DN-SB-9.0-10.0	MERCURY	J	0.0119	0.115	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-197-SA5DN-SB-4.0-5.0	EFH (C21-C30) ETHYLENE GLYCOL	J J	0.76 7.0	1.4 12	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-197-SA5DN-SB-9.0-10.0	EFH (C30-C40)	J	0.95	1.4	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-182-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.66	2.0	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	TOLUENE	J	0.12	4.0	PQL	ug/Kg	J (all detects)
SL-182-SA5DN-SB-4.0-5.0	BENZENE TOLUENE	J J	0.17 0.12	4.5 4.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-184-SA5DN-SB-4.0-5.0	TOLUENE	J	0.12	4.4	PQL	ug/Kg	J (all detects)
SL-187-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.0	PQL	ug/Kg	J (all detects)
SL-196-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.4	PQL	ug/Kg	J (all detects)
SL-197-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.1	PQL	ug/Kg	J (all detects)
SL-197-SA5DN-SB-9.0-10.0	TOLUENE	J	0.09	4.0	PQL	ug/Kg	J (all detects)
SL-203-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.4	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE192 **Laboratory: LL**

EDD Filename: DE192_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.3	2.0	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.1	2.0	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.5	2.0	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.7	21	PQL	ug/Kg	
	CHRYSENE	J	1.6	2.0	PQL	ug/Kg	
	PHENANTHRENE	J	1.7	2.0	PQL	ug/Kg	
SL-182-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	20	PQL	ug/Kg	J (all detects)
SL-182-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SL-184-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	21	PQL	ug/Kg	J (all detects)
SL-187-SA5DN-SB-4.0-5.0	CHRYSENE	J	0.61	1.9	PQL	ug/Kg	J (all detects)
SL-187-SA5DN-SB-9.0-10.0	BENZO(A)ANTHRACENE	J	1.8	1.9	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.5	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	21	PQL	ug/Kg	
	FLUORANTHENE	J	0.90	1.9	PQL	ug/Kg	
SL-196-SA5DN-SB-4.0-5.0	PYRENE	J	0.80	1.9	PQL	ug/Kg	J (all detects)
SL-197-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	7.1	21	PQL	ug/Kg	
SL-197-SA5DN-SB-9.0-10.0	ACENAPHTHYLENE	J	1.1	2.0	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.45	2.0	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.7	2.0	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.6	2.0	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.2	2.0	PQL	ug/Kg	
	CHRYSENE	J	1.4	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	0.81	2.0	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.92	2.0	PQL	ug/Kg	
SL-203-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	21	PQL	ug/Kg	J (all detects)
SL-203-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	J (all detects)

LDC #: 26407N4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21/11

SDG #: DE192 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	No Quals
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	~~A~~ N	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples:

1	SL-181-SA5DN-SB-4.0-5.0	11	SL-197-SA5DN-SB-4.0-5.0	21		31	
2	SL-181-SA5DN-SB-9.0-10.0	12	SL-197-SA5DN-SB-9.0-10.0	22		32	
3	SL-182-SA5DN-SB-4.0-5.0	13	SL-203-SA5DN-SB-4.0-5.0	23		33	
4	SL-182-SA5DN-SB-9.0-10.0	14	SL-203-SA5DN-SB-9.0-10.0	24		34	
5	SL-184-SA5DN-SB-4.0-5.0	15	(W1) MS	25		35	
6	SL-184-SA5DN-SB-9.0-10.0	16	MSD	26		36	
7	SL-187-SA5DN-SB-4.0-5.0	17	DUP	27		37	
8	SL-187-SA5DN-SB-9.0-10.0	18		28		38	
9	SL-196-SA5DN-SB-4.0-5.0	19		29		39	
10	SL-196-SA5DN-SB-9.0-10.0	20		30		40	

Notes: _____

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE192
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6333520BKG Matrix Spike Lab Sample ID: 6333520MS Matrix Spike Duplicate Lab Sample ID: 6333520MSD
% Solids for Sample: 88.7
Batch Id(s): P18708A, P18726A, P18711A, P19608A

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum -		28039.2629		30381.1511		30090.0309		225.4791	223.2467	MG/KG	1039		919		1			20	P
Antimony	121	0.1901	B	0.7328		1.0100		1.3263	1.3395	MG/KG	41	N	61	N	32	*	75 - 125	20	MS
Arsenic -	75	11.4235		13.1264		14.2945		2.2106	2.2325	MG/KG	77		129		9			20	MS
Barium -	137	94.4557		102.7478		117.3831		11.0529	11.1623	MG/KG	75		205		13			20	MS
Beryllium	9	0.7852		1.6756		1.8396		0.8842	0.8930	MG/KG	101		118		9		75 - 125	20	MS
Boron		11.8606		240.7880		237.3090		225.4791	223.2467	MG/KG	102		101		1		84 - 115	20	P
Cadmium	111	0.2005		1.2870		1.5976		1.1053	1.1162	MG/KG	98		125		22	*	75 - 125	20	MS
Calcium -		11550.0049		9743.4679		9345.3905		450.9583	446.4933	MG/KG	-401		-494		4			20	P
Chromium	52	35.0051		48.0580		54.7847		11.0529	11.1623	MG/KG	118		177	N	13		75 - 125	20	MS
Cobalt	59	10.3854		70.5617		80.3242		55.2645	55.8117	MG/KG	109		125		13		75 - 125	20	MS
Copper	63	15.1942		27.2343		30.6071		11.0529	11.1623	MG/KG	109		138	N	12		75 - 125	20	MS
Iron -		33175.1896		30258.9797		31187.2314		112.7396	111.6233	MG/KG	-2587		-1781		3			20	P
Lead	208	7.8717		11.3535		12.5509		3.3159	3.3487	MG/KG	105		140	N	10		75 - 125	20	MS
Lithium		32.1713		148.6821		147.2937		112.7396	111.6233	MG/KG	103		103		1		82 - 114	20	P
Magnesium		7394.0752		7573.0846		7605.1057		225.4791	223.2467	MG/KG	79		95		0			20	P
Manganese		342.3003		386.5310		395.7014		56.3698	55.8117	MG/KG	78		96		2			20	P
Mercury		0.0079	U	0.1913		0.1848		0.1857	0.1812	MG/KG	103		102		3		65 - 135	20	CV
Molybdenum	98	0.4293		11.6940		13.7810		11.0529	11.1623	MG/KG	102		120		16		75 - 125	20	MS
Nickel	60	20.5074		33.0482		36.5232		11.0529	11.1623	MG/KG	113		143	N	10		75 - 125	20	MS
Phosphorus		281.4833		380.7914		380.1746		112.7396	111.6233	MG/KG	88		88		0		75 - 125	20	P
Potassium		3059.2660		4429.2818		4373.0340		1127.3957	1116.2334	MG/KG	122		118		1		75 - 125	20	P
Selenium	78	0.1485	B	2.3211		2.6365		2.2106	2.2325	MG/KG	98		111		13		75 - 125	20	MS
Silver	107	0.0381	B	11.7647		13.5221		11.0529	11.1623	MG/KG	106		121		14		75 - 125	20	MS
Sodium		226.8561		1331.5073		1314.8158		1127.3957	1116.2334	MG/KG	98		97		1		75 - 125	20	P
Strontium		36.3065		145.5242		145.1818		112.7396	111.6233	MG/KG	97		98		0		75 - 115	20	P
Thallium	203	0.3208		0.7520		0.8754		0.4421	0.4465	MG/KG	98		124		15		75 - 125	20	MS
Tin		2.5667	B	379.1263		373.6837		450.9583	446.4933	MG/KG	84		83		1		80 - 110	20	P
Titanium -		1254.5829		1533.3057		1607.5193		110.5290	110.5290	MG/KG	252		319		5			20	P
Vanadium -	51	66.5052		82.1009		91.2856		11.0529	11.1623	MG/KG	141		222		11			20	MS
Zinc -	66	73.0686		82.2115		90.5265		11.0529	11.1623	MG/KG	83		156		10			20	MS
Zirconium		5.2101	B	115.3179		114.4921		112.7396	111.6233	MG/KG	98		98		1		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE192
Matrix: SOIL Level (low/med): LOW

<5xRL

Background Lab Sample ID: 6333520BKG
% Solids for Duplicate: 88.7
Batch ID(s): P18708A, P18726A, P18711A, P19608A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6333520DUP
% Solids for Sample: 88.7

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			28039.2629		26070.5214		7		P
Antimony	121	0.2	0.1901	B	0.2551		29		MS
Arsenic	75		11.4235		10.5378		8		MS
Barium	137		94.4557		94.2370		0		MS
Beryllium	9		0.7852		0.7324		7		MS
Boron		5.5	11.8606		10.9882		8		P
Cadmium	111	0.1	0.2005		0.2356		16		MS
Calcium			11550.0049		9428.2374		20		P
Chromium	52		35.0051		35.1482		0		MS
Cobalt	59		10.3854		9.5939		8		MS
Copper	63		15.1942		15.4917		2		MS
Iron			33175.1896		30361.6596		9		P
Lead	208		7.8717		7.8873		0		MS
Lithium			32.1713		32.2926		0		P
Magnesium	-		7394.0752		7258.3187		2		P
Manganese			342.3003		384.3962		12		P
Mercury			0.0079	U	0.0077	U			CV
Molybdenum	98	0.1	0.4293		0.4454		4		MS
Nickel	60		20.5074		20.4412		0		MS
Phosphorus			281.4833		279.0048		1		P
Potassium			3059.2660		2923.6128		5		P
Selenium	78		0.1485	B	0.1496	B	1		MS
Silver	107		0.0381	B	0.0298	B	24		MS
Sodium		109.5	226.8561		212.2864		7		P
Strontium			36.3065		33.5506		8		P
Thallium	203	0.1	0.3208		0.3300		3		MS
Tin			2.5667	B	2.5952	B	1		P
Titanium			1254.5829		1270.1627		1		P
Vanadium	51		66.5052		65.9858		1		MS
Zinc	66		73.0686		67.8427		7		MS
Zirconium			5.2101	B	4.9728	B	5		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE192
Matrix: SOIL Level (low/med): LOW

J105

Background Lab Sample ID: 6333520BKG Serial Dilution Lab Sample ID: 6333520L
Batch ID(s): P18708A, P18726A, P19608A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		256169.5100		234296.9000		9		P
Antimony	121	0.8515	B	1.8500	U	100		MS
Arsenic	75	51.1700		59.7500		17	E	MS
Barium	137	423.1000		495.8000		17	E	MS
Beryllium	9	3.5170		4.2660		21		MS
Boron		108.3600		137.7500	B	27		P
Cadmium	111	0.8981		1.1000	U	100		MS
Calcium		105522.0000		109968.1000		4		P
Chromium	52	156.8000		181.8000		16	E	MS
Cobalt	59	46.5200		55.1500		19	E	MS
Copper	63	68.0600		94.6500		39	E	MS
Iron		60618.3700		61182.7000		1		P
Lead	208	35.2600		42.5250		21	E	MS
Lithium		293.9200		292.1000		1		P
Magnesium		67553.0100		69395.8000		3		P
Manganese		3127.2900		3243.5000		4		P
Molybdenum	98	1.9230		2.8370		48		MS
Nickel	60	91.8600		108.8500		18	E	MS
Phosphorus		2571.6600		2654.3500		3		P
Potassium		27949.7600		28662.8000		3		P
Selenium	78	0.6650	B	1.4500	U	100		MS
Silver	107	0.1708	B	0.3550	U	100		MS
Sodium		2072.5800		2094.7500	B	1		P
Strontium		331.7000		334.3500		1		P
Thallium	203	1.4370		1.5015	B	4		MS
Tin		23.4500	B	30.3000	B	29		P
Titanium		11128.1500		11677.3000		5		P
Vanadium	51	297.9000		334.8000		12	E	MS
Zinc	66	327.3000		353.1000		8		MS
Zirconium		47.6000	B	73.7500	B	55		P

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

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

DE192 3585

SAMPLE DELIVERY GROUP

DE193

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3050B	6010B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3050B	6020	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3060A	7199	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3546	1625C	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3550B	8015B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3550B	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3550B	8082	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3550B	8270C	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	3550B	8270C SIM	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	5035	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	5035	8260B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	5035	8260B SIM	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	8330	8330A	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	300.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	314.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	7471A	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	8015B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	8315A	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335826	N	METHOD	9012B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0DU	P335826D271443A	DUP	METHOD	314.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0DU	P335826D271918A	DUP	METHOD	300.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R241137A	MS	METHOD	8315A	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R241206A	MS	8330	8330A	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R260200	MS	3550B	8270C SIM	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R261513	MS	3546	1625C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R261546	MS	3550B	8270C	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R270320A	MS	METHOD	300.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R271506A	MS	METHOD	314.0	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R320453A	MS	3550B	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0MS	P335826R321937A	MS	3550B	8015B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3050B	6010B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3050B	6020	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3060A	7199	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3546	1625C	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3550B	8015B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3550B	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3550B	8082	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3550B	8270C	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	3550B	8270C SIM	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	5035	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	5035	8260B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	5035	8260B SIM	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	8330	8330A	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	300.0	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	314.0	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	7471A	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	8015B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	8015M	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	8315A	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0	6335827	N	METHOD	9012B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0D	P335827D270927A	DUP	METHOD	9012B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0M	P335827R241913A	MS	METHOD	8315A	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0M	P335827R270928A	MS	METHOD	9012B	III
05-Jul-2011	SL-186-SA5DN-SB-9.0-10.0M	P335827R320442A	MS	METHOD	8015B	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3050B	6010B	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3050B	6020	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3060A	7199	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3550B	8082	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3550B	8270C	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	3550B	8270C SIM	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	5035	8260B	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	5035	8260B SIM	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	METHOD	300.0	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	METHOD	314.0	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335830	N	METHOD	7471A	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3050B	6010B	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3050B	6020	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3060A	7199	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3550B	8082	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3550B	8270C	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	3550B	8270C SIM	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	METHOD	300.0	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	METHOD	314.0	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335831	N	METHOD	7471A	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3050B	6010B	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3050B	6020	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3550B	8082	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3550B	8270C	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	3550B	8270C SIM	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	5035	8260B	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	5035	8260B SIM	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	METHOD	300.0	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	METHOD	314.0	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335832	N	METHOD	7471A	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3050B	6010B	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3050B	6020	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3060A	7199	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3550B	8082	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3550B	8270C	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	3550B	8270C SIM	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	METHOD	300.0	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	METHOD	314.0	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335833	N	METHOD	7471A	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3050B	6010B	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3050B	6020	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3060A	7199	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3546	1625C	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3550B	8015B	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3550B	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3550B	8082	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3550B	8270C	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	5035	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	5035	8260B	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	5035	8260B SIM	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	8330	8330A	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	300.0	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	314.0	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	7471A	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	8015B	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	8315A	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335828	N	METHOD	9012B	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3050B	6010B	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3050B	6020	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3060A	7199	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3546	1625C	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3550B	8015B	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3550B	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3550B	8082	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3550B	8270C	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	3550B	8270C SIM	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	5035	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	5035	8260B	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	5035	8260B SIM	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	8330	8330A	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	300.0	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	7471A	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	8015B	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	8015M	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	8315A	III
05-Jul-2011	SL-192-SA5DN-SB-9.0-10.0	6335829	N	METHOD	9012B	III
05-Jul-2011	TB-070511	6335834	TB	5030B	8015M	III
05-Jul-2011	TB-070511	6335834	TB	5030B	8260B	III
05-Jul-2011	TB-070511	6335834	TB	5030B	8260B SIM	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE193 Laboratory: LL

EDD Filename: DE193_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.0		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	10.7		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.1		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.9		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.9		0.96	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.32	J	0.363	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	111	J	6.75	MDL	113	PQL	mg/Kg	J	Z
TIN	3.56	J	0.363	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.52	J	0.373	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.61	J	0.367	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.39	J	0.354	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.96	J	0.370	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.60	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.75	J	0.386	MDL	12.1	PQL	mg/Kg	U	B

Method Category: METALS **Method:** 6020 **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.210	J	0.0652	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0621	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0985	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.148	J	0.0831	MDL	0.225	PQL	mg/Kg	J	Z
SILVER	0.0407	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 12:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0649	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 12:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.217	J	0.0828	MDL	0.224	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 12:10:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0538	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.131	J	0.0666	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0996	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.114	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0718	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0883	J	0.0685	MDL	0.472	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206	J	0.0874	MDL	0.236	PQL	mg/Kg	J	Z
CADMIUM	0.104	J	0.0519	MDL	0.118	PQL	mg/Kg	J	Z
SILVER	0.112	J	0.0168	MDL	0.118	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 10:35:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.200	J	0.0654	MDL	0.451	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0814	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0806	J	0.0673	MDL	0.464	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0765	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.90	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-192-SA5DN-SB-9.0-10.0 **Collected:** 7/5/2011 12:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-4.0-5.0 **Collected:** 7/5/2011 9:15:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-9.0-10.0 **Collected:** 7/5/2011 9:20:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-4.0-5.0 **Collected:** 7/5/2011 10:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.61	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-9.0-10.0 **Collected:** 7/5/2011 10:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.65	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-192-SA5DN-SB-9.0-10.0 **Collected:** 7/5/2011 12:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0161	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-9.0-10.0 **Collected:** 7/5/2011 9:20:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0220	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE193 Laboratory: LL

EDD Filename: DE193_v1. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.103	J	0.0082	MDL	0.117	PQL	mg/Kg	J	Z

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

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.97	J	0.47	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.57	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

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

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.59	J	0.40	MDL	2.1	PQL	ug/Kg	J	Z, L

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

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,3-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,4-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L
HEXACHLOROETHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE193 Laboratory: LL

EDD Filename: DE193_v1. eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 12:10:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 10:35:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	400	U	400	MDL	1200	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-186-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 7:50:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	9.4	J	7.0	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.5	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-186-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 8:00:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.9	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 12:10:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	8.9	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 12:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	9.3	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-4.0-5.0 ***Collected:*** 7/5/2011 9:15:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.3	J	6.9	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	9.1	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-9.0-10.0 ***Collected:*** 7/5/2011 9:20:00 AM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.0	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	12	J	7.0	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 10:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	9.2	J	7.0	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.7	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	7.2	MDL	22	PQL	ug/Kg	U	B
Di-n-butylphthalate	9.8	J	7.2	MDL	22	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	690	U	690	MDL	1700	PQL	ug/Kg	UJ	Q

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.8	U	1.8	MDL	4.1	PQL	mg/Kg	UJ	Q

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	5.1		0.23	MDL	3.8	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory:** LL

EDD Filename: DE193_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	4.7		0.23	MDL	3.8	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	3.8	PQL	ug/Kg	J	Z

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES *Dilution:* 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	4.4		0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	4.3		0.24	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.11	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	4.8		0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE193

Method Blank Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18808CB220959	7/15/2011 9:59:00 AM	IRON MAGNESIUM PHOSPHORUS TIN	4.66 mg/Kg 0.590 mg/Kg 1.43 mg/Kg 1.64 mg/Kg	SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-186-SA5DN-SB-4.0-5.0(RES)	TIN	3.32 mg/Kg	3.32U mg/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	TIN	3.56 mg/Kg	3.56U mg/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	TIN	3.52 mg/Kg	3.52U mg/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	TIN	3.61 mg/Kg	3.61U mg/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	TIN	3.39 mg/Kg	3.39U mg/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	TIN	3.96 mg/Kg	3.96U mg/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	TIN	3.60 mg/Kg	3.60U mg/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	TIN	3.75 mg/Kg	3.75U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18826AB221213A	7/8/2011 12:13:00 PM	COPPER NICKEL VANADIUM	0.261 mg/Kg 0.103 mg/Kg 0.0237 mg/Kg	SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB10B210829A	7/7/2011 8:29:00 AM	METHYLENE CHLORIDE	1.1 ug/Kg	SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-186-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	5.1 ug/Kg	5.1U ug/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-186-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	4.7 ug/Kg	4.7U ug/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	4.4 ug/Kg	4.4U ug/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	4.3 ug/Kg	4.3U ug/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	4.8 ug/Kg	4.8U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLC19B261910	7/13/2011 7:10:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	6.9 ug/Kg	SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-186-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.5 ug/Kg	21U ug/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.5 ug/Kg	21U ug/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.3 ug/Kg	21U ug/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.0 ug/Kg	21U ug/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	21U ug/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	8.5 ug/Kg	22U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8315A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-186-SA5DN-SB-9.0-10.0MSD (SL-186-SA5DN-SB-9.0-10.0)	FORMALDEHYDE	-	78	80.00-120.00	-	FORMALDEHYDE	J (all detects) UJ (all non-detects)

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-186-SA5DN-SB-4.0-5.0MS SL-186-SA5DN-SB-4.0-5.0MSD (SL-186-SA5DN-SB-4.0-5.0)	m-Terphenyl	73	68	75.00-125.00	-	m-Terphenyl	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-186-SA5DN-SB-4.0-5.0MSD (SL-186-SA5DN-SB-4.0-5.0)	2,4-DINITROPHENOL	-	-	20.00-143.00	51 (30.00)	2,4-DINITROPHENOL	J(all detects)
SL-186-SA5DN-SB-4.0-5.0MS	1,2-DICHLOROBENZENE	63	-	66.00-108.00	-	1,2-DICHLOROBENZENE	
SL-186-SA5DN-SB-4.0-	1,3-DICHLOROBENZENE	59	-	63.00-109.00	-	1,3-DICHLOROBENZENE	J(all detects)
5.0MSD	1,4-DICHLOROBENZENE	59	64	70.00-100.00	-	1,4-DICHLOROBENZENE	UJ(all non-detects)
(SL-186-SA5DN-SB-4.0-5.0)	HEXACHLOROETHANE	54	-	57.00-109.00	-	HEXACHLOROETHANE	

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-186-SA5DN-SB-4.0-5.0MS SL-186-SA5DN-SB-4.0-5.0MSD (SL-186-SA5DN-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	121	122	48.00-113.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE193 Laboratory: LL

EDD Filename: DE193_v1. eQAPP Name: CDM_SSFL_110509

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-186-SA5DN-SB-4.0-5.0MS (SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0)	FLUORIDE	38	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-186-SA5DN-SB-4.0-5.0DUP (SL-186-SA5DN-SB-4.0-5.0 SL-186-SA5DN-SB-9.0-10.0 SL-192-SA5DN-SB-4.0-5.0 SL-192-SA5DN-SB-9.0-10.0 SL-194-SA5DN-SB-4.0-5.0 SL-194-SA5DN-SB-9.0-10.0 SL-195-SA5DN-SB-4.0-5.0 SL-195-SA5DN-SB-9.0-10.0)	Nitrate-NO3	24	20.00	No Qual, OK by Difference

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11920AQ241737A (SL-186-SA5DN -SB-4.0-5.0 SL -186-SA5DN -SB-9.0-10.0 SL -192-SA5DN -SB-4.0-5.0 SL -192-SA5DN -SB-9.0-10.0 SL -194-SA5DN -SB-4.0-5.0 SL -194-SA5DN -SB-9.0-10.0 SL -195-SA5DN -SB-4.0-5.0)	AROCLOR 1016 AROCLOR 1260	123 154	- -	72.00-120.00 65.00-137.00	- -	AROCLOR 1016, 1221, 1232 AROCLOR 1242, 1248, 1254, 1260	J (all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LDLCSQ261317 (SL-186-SA5DN -SB-4.0-5.0 SL -186-SA5DN -SB-9.0-10.0 SL -192-SA5DN -SB-4.0-5.0 SL -192-SA5DN -SB-9.0-10.0 SL -194-SA5DN -SB-4.0-5.0 SL -194-SA5DN -SB-9.0-10.0 SL -195-SA5DN -SB-4.0-5.0 SL -195-SA5DN -SB-9.0-10.0)	2,4-DINITROPHENOL	34	-	37.00-120.00	-	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE193 Laboratory: LL

EDD Filename: DE193_v1. eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-4.0-5.0	TIN	J	3.32	11.3	PQL	mg/Kg	J (all detects)
SL-186-SA5DN-SB-9.0-10.0	SODIUM	J	111	113	PQL	mg/Kg	J (all detects)
	TIN	J	3.56	11.3	PQL	mg/Kg	
SL-192-SA5DN-SB-4.0-5.0	TIN	J	3.52	11.6	PQL	mg/Kg	J (all detects)
SL-192-SA5DN-SB-9.0-10.0	TIN	J	3.61	11.5	PQL	mg/Kg	J (all detects)
SL-194-SA5DN-SB-4.0-5.0	TIN	J	3.39	11.1	PQL	mg/Kg	J (all detects)
SL-194-SA5DN-SB-9.0-10.0	TIN	J	3.96	11.6	PQL	mg/Kg	J (all detects)
SL-195-SA5DN-SB-4.0-5.0	TIN	J	3.60	11.4	PQL	mg/Kg	J (all detects)
SL-195-SA5DN-SB-9.0-10.0	TIN	J	3.75	12.1	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-4.0-5.0	SELENIUM	J	0.210	0.449	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0621	0.112	PQL	mg/Kg	
SL-186-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.148	0.225	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0985	0.449	PQL	mg/Kg	
	SILVER	J	0.0407	0.112	PQL	mg/Kg	
SL-192-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.217	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.448	PQL	mg/Kg	
	SILVER	J	0.0538	0.112	PQL	mg/Kg	
SL-192-SA5DN-SB-9.0-10.0	SELENIUM	J	0.131	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0996	0.115	PQL	mg/Kg	
SL-194-SA5DN-SB-4.0-5.0	SELENIUM	J	0.114	0.447	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0718	0.112	PQL	mg/Kg	
SL-194-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.206	0.236	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.104	0.118	PQL	mg/Kg	
	SELENIUM	J	0.0883	0.472	PQL	mg/Kg	
	SILVER	J	0.112	0.118	PQL	mg/Kg	
SL-195-SA5DN-SB-4.0-5.0	SELENIUM	J	0.200	0.451	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0814	0.113	PQL	mg/Kg	
SL-195-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0806	0.464	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0765	0.116	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.90	1.2	PQL	mg/Kg	J (all detects)
SL-186-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.44	1.1	PQL	mg/Kg	J (all detects)
SL-192-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-192-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.41	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-194-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.2	PQL	mg/Kg	J (all detects)
SL-194-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.64	1.2	PQL	mg/Kg	J (all detects)
SL-195-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.61	1.2	PQL	mg/Kg	J (all detects)
SL-195-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.65	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA5DN-SB-9.0-10.0	MERCURY	J	0.0161	0.115	PQL	mg/Kg	J (all detects)
SL-194-SA5DN-SB-9.0-10.0	MERCURY	J	0.0220	0.115	PQL	mg/Kg	J (all detects)
SL-195-SA5DN-SB-9.0-10.0	MERCURY	J	0.103	0.117	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.97	1.4	PQL	mg/Kg	J (all detects)
SL-186-SA5DN-SB-9.0-10.0	EFH (C30-C40)	J	0.57	1.4	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-195-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.59	2.1	PQL	ug/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-9.0-10.0	TOLUENE	J	0.08	3.8	PQL	ug/Kg	J (all detects)
SL-192-SA5DN-SB-9.0-10.0	TOLUENE	J	0.10	3.9	PQL	ug/Kg	J (all detects)
SL-194-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	3.9	PQL	ug/Kg	J (all detects)
SL-195-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.2	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE193 **Laboratory: LL**

EDD Filename: DE193_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-186-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.4	21	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.5	21	PQL	ug/Kg	
SL-186-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	10	21	PQL	ug/Kg	
SL-192-SA5DN-SB-4.0-5.0	Di-n-butylphthalate	J	8.9	21	PQL	ug/Kg	J (all detects)
SL-192-SA5DN-SB-9.0-10.0	Di-n-butylphthalate	J	9.3	21	PQL	ug/Kg	J (all detects)
SL-194-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.3	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.1	21	PQL	ug/Kg	
SL-194-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	12	21	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.1	21	PQL	ug/Kg	
SL-195-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.2	21	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.7	21	PQL	ug/Kg	
SL-195-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	22	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	9.8	22	PQL	ug/Kg	

LDC #: 26407O4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/21/11
SDG #: DE193 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: OK
2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	No Quals
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	CS
VII.	Duplicate Sample Analysis	N		
VIII.	Laboratory Control Samples (LCS)	A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples:

1	SL-186-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-186-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-192-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-192-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-194-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-194-SA5DN-SB-9.0-10.0	16		26		36	
7	SL-195-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-195-SA5DN-SB-9.0-10.0	18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

SAMPLE DELIVERY GROUP

DE194

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3050B	6010B	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3050B	6020	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3060A	7199	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3546	1625C	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3550B	8015B	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3550B	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3550B	8082	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3550B	8270C	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	3550B	8270C SIM	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	5035	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	5035	8260B	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	5035	8260B SIM	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	8330	8330A	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	300.0	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	314.0	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	6850	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	7471A	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	8015B	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	8315A	III
06-Jul-2011	SL-191-SA5DN-SB-4.0-5.0	6337086	N	METHOD	9012B	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3050B	6010B	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3050B	6020	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3060A	7199	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3546	1625C	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3550B	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3550B	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3550B	8082	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3550B	8270C	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	3550B	8270C SIM	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	5035	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	5035	8260B	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	5035	8260B SIM	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	8330	8330A	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	300.0	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	314.0	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	7471A	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	8015B	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	8015M	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	8315A	III
06-Jul-2011	SL-191-SA5DN-SB-9.0-10.0	6337087	N	METHOD	9012B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3050B	6010B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3050B	6020	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3060A	7199	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3550B	8082	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3550B	8270C	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	3550B	8270C SIM	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	5035	8260B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	5035	8260B SIM	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	METHOD	300.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	METHOD	314.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0	6337088	N	METHOD	7471A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3050B	6010B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3050B	6020	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3060A	7199	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3550B	8082	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3550B	8270C	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	3550B	8270C SIM	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	5035	8260B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	5035	8260B SIM	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	METHOD	300.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	METHOD	314.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337089	MS	METHOD	7471A	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	3050B	6010B	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	3050B	6020	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	3060A	7199	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	METHOD	300.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	METHOD	314.0	III
06-Jul-2011	SL-200-SA5DN-SB-4.0-5.0DU	6337091	DUP	METHOD	7471A	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3050B	6010B	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3050B	6020	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3060A	7199	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3550B	8082	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3550B	8270C	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	3550B	8270C SIM	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	5035	8260B	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	5035	8260B SIM	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	METHOD	300.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	METHOD	314.0	III
06-Jul-2011	DUP-19-SA5DN-QC-070611	6337097	FD	METHOD	7471A	III
06-Jul-2011	DUP-19-SA5DN-QC-070611DUP	P337097D272001B	DUP	METHOD	300.0	III
06-Jul-2011	DUP-19-SA5DN-QC-070611MS	P337097R272016B	MS	METHOD	300.0	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3050B	6010B	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3050B	6020	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3060A	7199	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3550B	8082	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3550B	8270C	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	3550B	8270C SIM	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	METHOD	300.0	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	METHOD	314.0	III
06-Jul-2011	SL-200-SA5DN-SB-9.0-10.0	6337092	N	METHOD	7471A	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3050B	6010B	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3050B	6020	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3060A	7199	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3550B	8082	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3550B	8270C	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	3550B	8270C SIM	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	5035	8260B	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	5035	8260B SIM	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	METHOD	300.0	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	METHOD	314.0	III
06-Jul-2011	SL-190-SA5DN-SB-4.0-5.0	6337084	N	METHOD	7471A	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3050B	6010B	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3050B	6020	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3060A	7199	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3550B	8082	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3550B	8270C	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	3550B	8270C SIM	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	METHOD	300.0	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	METHOD	314.0	III
06-Jul-2011	SL-190-SA5DN-SB-9.0-10.0	6337085	N	METHOD	7471A	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3050B	6010B	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3050B	6020	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3060A	7199	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3550B	8082	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3550B	8270C	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	3550B	8270C SIM	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	5035	8260B	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	5035	8260B SIM	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	METHOD	300.0	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	METHOD	314.0	III
06-Jul-2011	SL-205-SA5DN-SB-4.0-5.0	6337095	N	METHOD	7471A	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3050B	6010B	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3050B	6020	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3060A	7199	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3550B	8082	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3550B	8270C	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	3550B	8270C SIM	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	METHOD	300.0	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	METHOD	314.0	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	METHOD	6850	III
06-Jul-2011	SL-205-SA5DN-SB-9.0-10.0	6337096	N	METHOD	7471A	III
06-Jul-2011	TB-070611	6337098	TB	5030B	8015M	III
06-Jul-2011	TB-070611	6337098	TB	5030B	8260B	III
06-Jul-2011	TB-070611	6337098	TB	5030B	8260B SIM	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3050B	6010B	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3050B	6020	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3060A	7199	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3550B	8082	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3550B	8270C	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	3550B	8270C SIM	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	5035	8260B	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	5035	8260B SIM	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	METHOD	300.0	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	METHOD	314.0	III
06-Jul-2011	SL-201-SA5DN-SB-4.0-5.0	6337093	N	METHOD	7471A	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3050B	6010B	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3050B	6020	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3060A	7199	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3550B	8082	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3550B	8270C	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	3550B	8270C SIM	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	METHOD	300.0	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	METHOD	314.0	III
06-Jul-2011	SL-201-SA5DN-SB-9.0-10.0	6337094	N	METHOD	7471A	III

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Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.8		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	10.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.93	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	1.5	J	0.93	MDL	1.7	PQL	mg/Kg	J	Z, Q

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	14.4		0.93	MDL	1.2	PQL	mg/Kg	J	Q
Nitrate-NO3	4.3		0.93	MDL	1.7	PQL	mg/Kg	J	Q

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.1		0.93	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-201-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 2:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	11.9		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.2		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	108	J	6.82	MDL	115	PQL	mg/Kg	J	Z
TIN	3.45	J	0.367	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	102	J	6.74	MDL	113	PQL	mg/Kg	J	Z
TIN	3.41	J	0.363	MDL	11.3	PQL	mg/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-190-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 10:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.61	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-191-SA5DN-SB-4.0-5.0 **Collected:** 7/6/2011 7:40:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	105	J	6.93	MDL	116	PQL	mg/Kg	J	Z
TIN	3.65	J	0.373	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-191-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 7:50:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.59	J	0.362	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-200-SA5DN-SB-4.0-5.0 **Collected:** 7/6/2011 9:10:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	93.2	J	6.63	MDL	111	PQL	mg/Kg	J	Z
TIN	3.43	J	0.357	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-200-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 9:25:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.66	J	0.372	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-201-SA5DN-SB-4.0-5.0 **Collected:** 7/6/2011 2:35:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	114	J	6.89	MDL	116	PQL	mg/Kg	J	Z
TIN	2.84	J	0.371	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-201-SA5DN-SB-9.0-10.0 **Collected:** 7/6/2011 2:40:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.94	J	0.374	MDL	11.7	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	99.0	J	6.63	MDL	111	PQL	mg/Kg	J	Z
TIN	3.34	J	0.357	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.45	J	0.367	MDL	11.5	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.221	J	0.0652	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.527		0.0562	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	126		0.119	MDL	0.450	PQL	mg/Kg	J	E, A

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.230		0.0832	MDL	0.225	PQL	mg/Kg	J	Q
ARSENIC	7.06		0.0900	MDL	0.450	PQL	mg/Kg	J	E, A
BERYLLIUM	0.966		0.0180	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	0.359		0.0495	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	44.8		0.135	MDL	0.450	PQL	mg/Kg	J	E, A
COBALT	13.0		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 Laboratory: LL

EDD Filename: DE194_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	21.9		0.0900	MDL	0.450	PQL	mg/Kg	J	Q, E
LEAD	10.3		0.0115	MDL	0.225	PQL	mg/Kg	J	E, A
NICKEL	24.7		0.112	MDL	0.450	PQL	mg/Kg	J	Q, E, A
SILVER	0.0681	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z, Q
VANADIUM	85.2		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	88.2		0.630	MDL	3.37	PQL	mg/Kg	J	E, A

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.992		0.0449	MDL	0.280	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.233	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.489		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.119	MDL	0.449	PQL	mg/Kg	J	E, A

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.292		0.0830	MDL	0.224	PQL	mg/Kg	J	Q
ARSENIC	6.87		0.0898	MDL	0.449	PQL	mg/Kg	J	E, A
CADMIUM	0.280		0.0494	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	41.0		0.135	MDL	0.449	PQL	mg/Kg	J	E, A
COBALT	12.0		0.0224	MDL	0.112	PQL	mg/Kg	J	Q, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-190-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 10:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	18.8		0.0898	MDL	0.449	PQL	mg/Kg	J	Q, E
LEAD	10.3		0.0114	MDL	0.224	PQL	mg/Kg	J	E, A
NICKEL	23.6		0.112	MDL	0.449	PQL	mg/Kg	J	Q, E, A
SILVER	0.0536	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
VANADIUM	80.3		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	75.5		0.628	MDL	3.37	PQL	mg/Kg	J	E, A

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 10:40:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	1.03		0.0455	MDL	0.285	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 10:40:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.275		0.0501	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 10:40:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.136	J	0.0660	MDL	0.455	PQL	mg/Kg	J	Z

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 10:40:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.759		0.0569	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 10:40:00 ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	147		0.121	MDL	0.455	PQL	mg/Kg	J	E, A

Sample ID: SL-190-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 10:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.299		0.0842	MDL	0.228	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 Laboratory: LL

EDD Filename: DE194_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 10:40:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	7.71		0.0911	MDL	0.455	PQL	mg/Kg	J	E, A
CHROMIUM	46.0		0.137	MDL	0.455	PQL	mg/Kg	J	E, A
COBALT	12.6		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E, A
COPPER	21.1		0.0911	MDL	0.455	PQL	mg/Kg	J	Q, E
LEAD	10.2		0.0116	MDL	0.228	PQL	mg/Kg	J	E, A
NICKEL	26.2		0.114	MDL	0.455	PQL	mg/Kg	J	Q, E, A
SILVER	0.0717	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
VANADIUM	88.4		0.0250	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	81.6		0.637	MDL	3.41	PQL	mg/Kg	J	E, A

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.218	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.672		0.0571	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	178		0.121	MDL	0.457	PQL	mg/Kg	J	E, A

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.289		0.0845	MDL	0.228	PQL	mg/Kg	J	Q
ARSENIC	8.23		0.0913	MDL	0.457	PQL	mg/Kg	J	E, A
BERYLLIUM	1.30		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.331		0.0502	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	55.2		0.137	MDL	0.457	PQL	mg/Kg	J	E, A
COBALT	16.3		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E, A
COPPER	25.2		0.0913	MDL	0.457	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-191-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 7:40:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	13.4		0.0116	MDL	0.228	PQL	mg/Kg	J	E, A
NICKEL	29.2		0.114	MDL	0.457	PQL	mg/Kg	J	Q, E, A
SILVER	0.0485	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
VANADIUM	110		0.0251	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	94.3		0.639	MDL	3.42	PQL	mg/Kg	J	E, A

Sample ID: SL-191-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 7:50:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0675	MDL	0.465	PQL	mg/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 7:50:00 AM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.486		0.0582	MDL	0.116	PQL	mg/Kg	J	Q

Sample ID: SL-191-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 7:50:00 AM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	147		0.123	MDL	0.465	PQL	mg/Kg	J	E, A

Sample ID: SL-191-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 7:50:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.245		0.0861	MDL	0.233	PQL	mg/Kg	J	Q
ARSENIC	7.31		0.0931	MDL	0.465	PQL	mg/Kg	J	E, A
BERYLLIUM	1.20		0.0186	MDL	0.116	PQL	mg/Kg	J	Q
CADMIUM	0.168		0.0512	MDL	0.116	PQL	mg/Kg	J	Q
CHROMIUM	48.5		0.140	MDL	0.465	PQL	mg/Kg	J	E, A
COBALT	11.1		0.0233	MDL	0.116	PQL	mg/Kg	J	Q, E, A
COPPER	20.2		0.0931	MDL	0.465	PQL	mg/Kg	J	Q, E
LEAD	11.1		0.0119	MDL	0.233	PQL	mg/Kg	J	E, A
NICKEL	24.9		0.116	MDL	0.465	PQL	mg/Kg	J	Q, E, A
SILVER	0.0486	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z, Q
VANADIUM	92.4		0.0256	MDL	0.116	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	82.1		0.652	MDL	3.49	PQL	mg/Kg	J	E, A

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.243	J	0.0665	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.688		0.0574	MDL	0.115	PQL	mg/Kg	J	Q

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	180		0.122	MDL	0.459	PQL	mg/Kg	J	E, A

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.337		0.0849	MDL	0.229	PQL	mg/Kg	J	Q
ARSENIC	9.25		0.0918	MDL	0.459	PQL	mg/Kg	J	E, A
BERYLLIUM	1.30		0.0184	MDL	0.115	PQL	mg/Kg	J	Q
CADMIUM	0.454		0.0505	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	56.4		0.138	MDL	0.459	PQL	mg/Kg	J	E, A
COBALT	17.1		0.0229	MDL	0.115	PQL	mg/Kg	J	Q, E, A
COPPER	26.7		0.0918	MDL	0.459	PQL	mg/Kg	J	Q, E
LEAD	14.3		0.0117	MDL	0.229	PQL	mg/Kg	J	E, A
NICKEL	31.9		0.115	MDL	0.459	PQL	mg/Kg	J	Q, E, A
SILVER	0.0445	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, Q
VANADIUM	108		0.0252	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	109		0.642	MDL	3.44	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 Laboratory: LL

EDD Filename: DE194_v1 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.192	J	0.0662	MDL	0.456	PQL	mg/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.55		0.0570	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	155		0.121	MDL	0.456	PQL	mg/Kg	J	E, A

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.395		0.0844	MDL	0.228	PQL	mg/Kg	J	Q
ARSENIC	10.0		0.0913	MDL	0.456	PQL	mg/Kg	J	E, A
BERYLLIUM	1.27		0.0183	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.324		0.0502	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	56.3		0.137	MDL	0.456	PQL	mg/Kg	J	E, A
COBALT	17.0		0.0228	MDL	0.114	PQL	mg/Kg	J	Q, E, A
COPPER	25.4		0.0913	MDL	0.456	PQL	mg/Kg	J	Q, E
LEAD	13.8		0.0116	MDL	0.228	PQL	mg/Kg	J	E, A
NICKEL	32.7		0.114	MDL	0.456	PQL	mg/Kg	J	Q, E, A
SILVER	0.0454	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
VANADIUM	97.3		0.0251	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	102		0.639	MDL	3.42	PQL	mg/Kg	J	E, A

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.258	J	0.0652	MDL	0.450	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.498		0.0562	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	144		0.119	MDL	0.450	PQL	mg/Kg	J	E, A

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.263		0.0832	MDL	0.225	PQL	mg/Kg	J	Q
ARSENIC	7.87		0.0900	MDL	0.450	PQL	mg/Kg	J	E, A
BERYLLIUM	1.10		0.0180	MDL	0.112	PQL	mg/Kg	J	Q
CADMIUM	0.298		0.0495	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	47.2		0.135	MDL	0.450	PQL	mg/Kg	J	E, A
COBALT	14.9		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E, A
COPPER	21.6		0.0900	MDL	0.450	PQL	mg/Kg	J	Q, E
LEAD	12.1		0.0115	MDL	0.225	PQL	mg/Kg	J	E, A
NICKEL	27.4		0.112	MDL	0.450	PQL	mg/Kg	J	Q, E, A
SILVER	0.0702	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z, Q
VANADIUM	91.2		0.0247	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	90.1		0.630	MDL	3.37	PQL	mg/Kg	J	E, A

Sample ID: SL-201-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 2:40:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.179	J	0.0665	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-201-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 2:40:00 PM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.653		0.0573	MDL	0.115	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-201-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 2:40:00 PM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	155		0.122	MDL	0.459	PQL	mg/Kg	J	E, A

Sample ID: SL-201-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 2:40:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.204	J	0.0848	MDL	0.229	PQL	mg/Kg	J	Z, Q
ARSENIC	9.35		0.0917	MDL	0.459	PQL	mg/Kg	J	E, A
BERYLLIUM	1.25		0.0183	MDL	0.115	PQL	mg/Kg	J	Q
CADMIUM	0.297		0.0504	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	56.5		0.138	MDL	0.459	PQL	mg/Kg	J	E, A
COBALT	15.2		0.0229	MDL	0.115	PQL	mg/Kg	J	Q, E, A
COPPER	26.5		0.0917	MDL	0.459	PQL	mg/Kg	J	Q, E
LEAD	12.3		0.0117	MDL	0.229	PQL	mg/Kg	J	E, A
NICKEL	30.8		0.115	MDL	0.459	PQL	mg/Kg	J	Q, E, A
SILVER	0.0688	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, Q
VANADIUM	108		0.0252	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	99.5		0.642	MDL	3.44	PQL	mg/Kg	J	E, A

Sample ID: SL-205-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 1:20:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0659	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 1:20:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.613		0.0568	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-205-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 1:20:00 PM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	166		0.120	MDL	0.454	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-205-SA5DN-SB-4.0-5.0 ***Collected:*** 7/6/2011 1:20:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.310		0.0841	MDL	0.227	PQL	mg/Kg	J	Q
ARSENIC	8.47		0.0909	MDL	0.454	PQL	mg/Kg	J	E, A
BERYLLIUM	1.19		0.0182	MDL	0.114	PQL	mg/Kg	J	Q
CADMIUM	0.432		0.0500	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	54.0		0.136	MDL	0.454	PQL	mg/Kg	J	E, A
COBALT	16.6		0.0227	MDL	0.114	PQL	mg/Kg	J	Q, E, A
COPPER	26.2		0.0909	MDL	0.454	PQL	mg/Kg	J	Q, E
LEAD	12.9		0.0116	MDL	0.227	PQL	mg/Kg	J	E, A
NICKEL	31.2		0.114	MDL	0.454	PQL	mg/Kg	J	Q, E, A
SILVER	0.0548	J	0.0161	MDL	0.114	PQL	mg/Kg	J	Z, Q
VANADIUM	104		0.0250	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	103		0.636	MDL	3.41	PQL	mg/Kg	J	E, A

Sample ID: SL-205-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 1:25:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.361	J	0.0671	MDL	0.463	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 1:25:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.832		0.0579	MDL	0.116	PQL	mg/Kg	J	Q

Sample ID: SL-205-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 1:25:00 PM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	193		0.123	MDL	0.463	PQL	mg/Kg	J	E, A

Sample ID: SL-205-SA5DN-SB-9.0-10.0 ***Collected:*** 7/6/2011 1:25:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.553		0.0857	MDL	0.231	PQL	mg/Kg	J	Q
ARSENIC	11.6		0.0926	MDL	0.463	PQL	mg/Kg	J	E, A
BERYLLIUM	1.42		0.0185	MDL	0.116	PQL	mg/Kg	J	Q
CADMIUM	0.304		0.0509	MDL	0.116	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	66.6		0.139	MDL	0.463	PQL	mg/Kg	J	E, A
COBALT	20.8		0.0231	MDL	0.116	PQL	mg/Kg	J	Q, E, A
COPPER	29.8		0.0926	MDL	0.463	PQL	mg/Kg	J	Q, E
LEAD	16.9		0.0118	MDL	0.231	PQL	mg/Kg	J	E, A
NICKEL	37.5		0.116	MDL	0.463	PQL	mg/Kg	J	Q, E, A
SILVER	0.0563	J	0.0164	MDL	0.116	PQL	mg/Kg	J	Z, Q
VANADIUM	124		0.0255	MDL	0.116	PQL	mg/Kg	J	E, A
ZINC	122		0.648	MDL	3.47	PQL	mg/Kg	J	E, A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.61	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.44	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.61	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.61	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-201-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 2:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.77	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.72	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0104	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0092	J	0.0081	MDL	0.115	PQL	mg/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0095	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Method Category: SVOA **Method:** 6850 **Matrix:** SO

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	4.8	J	2.4	MDL	5.8	PQL	ug/Kg	J	Z

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

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLPHENOL	38	U	38	MDL	190	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	35	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	19	MDL	390	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.0	U	7.0	MDL	21	PQL	ug/Kg	UJ	FD

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	7.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 10:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.2	J	7.0	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: **SL-191-SA5DN-SB-4.0-5.0** ***Collected:*** **7/6/2011 7:40:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	7.0	MDL	21	PQL	ug/Kg	U	B

Sample ID: **SL-191-SA5DN-SB-9.0-10.0** ***Collected:*** **7/6/2011 7:50:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	7.1	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.5	J	7.1	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-200-SA5DN-SB-4.0-5.0** ***Collected:*** **7/6/2011 9:10:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-butylphthalate	11	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	7.0	J	7.0	MDL	21	PQL	ug/Kg	J	Z, FD

Sample ID: **SL-200-SA5DN-SB-9.0-10.0** ***Collected:*** **7/6/2011 9:25:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	7.1	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-201-SA5DN-SB-4.0-5.0** ***Collected:*** **7/6/2011 2:35:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	7.0	MDL	21	PQL	ug/Kg	U	B
Di-n-octylphthalate	9.5	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-201-SA5DN-SB-9.0-10.0** ***Collected:*** **7/6/2011 2:40:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.7	J	7.0	MDL	21	PQL	ug/Kg	U	B

Sample ID: **SL-205-SA5DN-SB-4.0-5.0** ***Collected:*** **7/6/2011 1:20:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	7.3	J	6.9	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory:** LL

EDD Filename: DE194_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** AQ

Sample ID: TB-070611 *Collected:* 7/6/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	18		6.9	MDL	8.2	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.2		0.25	MDL	4.1	PQL	ug/Kg	UJ	B, FD
TOLUENE	0.08	U	0.08	MDL	4.1	PQL	ug/Kg	UJ	FD

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* RES *Dilution:* 0.87

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	28		6.8	MDL	8.1	PQL	ug/Kg	U	B
TOLUENE	0.15	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	22		6.5	MDL	7.8	PQL	ug/Kg	U	B
TOLUENE	0.08	J	0.08	MDL	3.9	PQL	ug/Kg	J	Z

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	22		6.8	MDL	8.1	PQL	ug/Kg	U	B
CHLOROFORM	0.13	J	0.12	MDL	4.1	PQL	ug/Kg	J	Z
TOLUENE	0.16	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	22		7.0	MDL	8.3	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 0.9

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	14		0.25	MDL	4.2	PQL	ug/Kg	UJ	Q, B, FD
TOLUENE	0.11	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z, FD

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 0.95

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	25		7.4	MDL	8.9	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	12		0.27	MDL	4.4	PQL	ug/Kg	U	B
TOLUENE	0.12	J	0.09	MDL	4.4	PQL	ug/Kg	J	Z

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	19		6.6	MDL	7.9	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	6.9		0.24	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE194

Method Blank Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18808CB220959	7/15/2011 9:59:00 AM	IRON MAGNESIUM PHOSPHORUS TIN	4.66 mg/Kg 0.590 mg/Kg 1.43 mg/Kg 1.64 mg/Kg	DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-19-SA5DN-QC-070611(RES)	TIN	3.45 mg/Kg	3.45U mg/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	TIN	3.41 mg/Kg	3.41U mg/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	TIN	3.61 mg/Kg	3.61U mg/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	TIN	3.65 mg/Kg	3.65U mg/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	TIN	3.59 mg/Kg	3.59U mg/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	TIN	3.43 mg/Kg	3.43U mg/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	TIN	3.66 mg/Kg	3.66U mg/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	TIN	3.34 mg/Kg	3.34U mg/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	TIN	3.45 mg/Kg	3.45U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P18826AB221213A	7/8/2011 12:13:00 PM	COPPER NICKEL VANADIUM	0.261 mg/Kg 0.103 mg/Kg 0.0237 mg/Kg	DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB14B211253A	7/12/2011 12:53:00 PM	ACETONE METHYLENE CHLORIDE	10 ug/Kg 1.8 ug/Kg	DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-19-SA5DN-QC-070611(RES)	ACETONE	18 ug/Kg	18U ug/Kg
DUP-19-SA5DN-QC-070611(RES)	METHYLENE CHLORIDE	7.2 ug/Kg	7.2U ug/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	ACETONE	28 ug/Kg	28U ug/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	ACETONE	22 ug/Kg	22U ug/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	ACETONE	22 ug/Kg	22U ug/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	ACETONE	22 ug/Kg	22U ug/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	14 ug/Kg	14U ug/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	ACETONE	25 ug/Kg	25U ug/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	12 ug/Kg	12U ug/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	ACETONE	19 ug/Kg	19U ug/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	6.9 ug/Kg	6.9U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB19B261828	7/15/2011 6:28:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	7.2 ug/Kg 8.5 ug/Kg	DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-19-SA5DN-QC-070611(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	21U ug/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	21U ug/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	21U ug/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	11 ug/Kg	21U ug/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	14 ug/Kg	21U ug/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	Di-n-butylphthalate	11 ug/Kg	21U ug/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	21U ug/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.7 ug/Kg	21U ug/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-200-SA5DN -SB-4.0-5.0MS SL-200-SA5DN -SB-4.0-5.0MSD (DUP-19-SA5DN -QC-070611 SL -190-SA5DN -SB-4.0-5.0 SL -190-SA5DN -SB-9.0-10.0 SL -191-SA5DN -SB-4.0-5.0 SL -191-SA5DN -SB-9.0-10.0 SL -200-SA5DN -SB-4.0-5.0 SL -200-SA5DN -SB-9.0-10.0 SL -201-SA5DN -SB-4.0-5.0 SL -201-SA5DN -SB-9.0-10.0 SL -205-SA5DN -SB-4.0-5.0 SL -205-SA5DN -SB-9.0-10.0)	BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER VANADIUM	- - 147 131 - - - - 157	126 135 171 139 143 130 129 130 202	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER VANADIUM	J (all detects) Cr, Pb, V, No Qual, >4x
SL-200-SA5DN -SB-4.0-5.0MS SL-200-SA5DN -SB-4.0-5.0MSD (DUP-19-SA5DN -QC-070611 SL -190-SA5DN -SB-4.0-5.0 SL -190-SA5DN -SB-9.0-10.0 SL -191-SA5DN -SB-4.0-5.0 SL -191-SA5DN -SB-9.0-10.0 SL -200-SA5DN -SB-4.0-5.0 SL -200-SA5DN -SB-9.0-10.0 SL -201-SA5DN -SB-4.0-5.0 SL -201-SA5DN -SB-9.0-10.0 SL -205-SA5DN -SB-4.0-5.0 SL -205-SA5DN -SB-9.0-10.0)	ANTIMONY ZINC	54 57	60 -	75.00-125.00 75.00-125.00	- -	ANTIMONY ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x
SL-200-SA5DN -SB-4.0-5.0MSD (DUP-19-SA5DN -QC-070611 SL -190-SA5DN -SB-4.0-5.0 SL -190-SA5DN -SB-9.0-10.0 SL -191-SA5DN -SB-4.0-5.0 SL -191-SA5DN -SB-9.0-10.0 SL -200-SA5DN -SB-4.0-5.0 SL -200-SA5DN -SB-9.0-10.0 SL -201-SA5DN -SB-4.0-5.0 SL -201-SA5DN -SB-9.0-10.0 SL -205-SA5DN -SB-4.0-5.0 SL -205-SA5DN -SB-9.0-10.0)	MOLYBDENUM	-	131	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-200-SA5DN -SB-4.0-5.0MS (DUP-19-SA5DN -QC-070611 SL -190-SA5DN -SB-4.0-5.0 SL -190-SA5DN -SB-9.0-10.0 SL -191-SA5DN -SB-4.0-5.0 SL -191-SA5DN -SB-9.0-10.0 SL -200-SA5DN -SB-4.0-5.0 SL -200-SA5DN -SB-9.0-10.0 SL -201-SA5DN -SB-4.0-5.0 SL -201-SA5DN -SB-9.0-10.0 SL -205-SA5DN -SB-4.0-5.0 SL -205-SA5DN -SB-9.0-10.0)	BARIUM	45	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-200-SA5DN-SB-4.0-5.0MS SL-200-SA5DN-SB-4.0-5.0MSD (DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0)	ALUMINUM CALCIUM IRON MAGNESIUM POTASSIUM TITANIUM	2949 848 2047 332 161 339	2777 665 2643 278 164 344	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM POTASSIUM TITANIUM	No Qual, >4x
SL-200-SA5DN-SB-4.0-5.0MS SL-200-SA5DN-SB-4.0-5.0MSD (DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0)	MANGANESE	56	24	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-200-SA5DN-SB-4.0-5.0MS SL-200-SA5DN-SB-4.0-5.0MSD (SL-200-SA5DN-SB-4.0-5.0)	2-METHYLPHENOL	65	65	75.00-111.00	-	2-METHYLPHENOL	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-200-SA5DN-SB-4.0-5.0MS (SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0)	FLUORIDE Nitrate-NO3	45 78	- -	80.00-120.00 80.00-120.00	- -	FLUORIDE Nitrate-NO3	J(all detects) UJ(all non-detects)
DUP-19-SA5DN-QC-070611MS (DUP-19-SA5DN-QC-070611)	FLUORIDE	47	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-200-SA5DN -SB-4.0-5.0MS SL-200-SA5DN -SB-4.0-5.0MSD (SL-200-SA5DN -SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	127	125	48.00-113.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-200-SA5DN -SB-4.0-5.0MS SL-200-SA5DN -SB-4.0-5.0MSD (SL-200-SA5DN -SB-4.0-5.0)	METHYLENE CHLORIDE	191	250	61.00-141.00	-	METHYLENE CHLORIDE	J(all detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-200-SA5DN-SB-4.0-5.0DUP	ARSENIC	27	20.00	
(DUP-19-SA5DN-QC-070611	BARIUM	30	20.00	
SL-190-SA5DN-SB-4.0-5.0	CADMIUM	35	20.00	J (all detects) UJ (all non-detects)
SL-190-SA5DN-SB-9.0-10.0	CHROMIUM	24	20.00	
SL-191-SA5DN-SB-4.0-5.0	COBALT	33	20.00	
SL-191-SA5DN-SB-9.0-10.0	COPPER	24	20.00	
SL-200-SA5DN-SB-4.0-5.0	LEAD	26	20.00	
SL-200-SA5DN-SB-9.0-10.0	MOLYBDENUM	30	20.00	
SL-201-SA5DN-SB-4.0-5.0	NICKEL	30	20.00	Cd, Mo, Ag, Tl, No Qual, OK by Difference
SL-201-SA5DN-SB-9.0-10.0	SILVER	33	20.00	
SL-205-SA5DN-SB-4.0-5.0	THALLIUM	31	20.00	
SL-205-SA5DN-SB-9.0-10.0)	VANADIUM	26	20.00	
	ZINC	28	20.00	

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1Y25Q211132A LCS1Y25Y211153A (TB-070611)	2-Chloro-1,1,1-trifluoroethane	73	73	77.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11920AQ241737A (DUP-19-SA5DN -QC-070611 SL -190-SA5DN -SB-4.0-5.0 SL -190-SA5DN -SB-9.0-10.0 SL -191-SA5DN -SB-4.0-5.0 SL -191-SA5DN -SB-9.0-10.0 SL -200-SA5DN -SB-4.0-5.0 SL -200-SA5DN -SB-9.0-10.0 SL -201-SA5DN -SB-4.0-5.0 SL -201-SA5DN -SB-9.0-10.0 SL -205-SA5DN -SB-4.0-5.0 SL -205-SA5DN -SB-9.0-10.0)	AROCLOR 1016 AROCLOR 1260	123 154	- -	72.00-120.00 65.00-137.00	- -	AROCLOR 1016, 1221, 1232 AROCLOR 1242, 1248, 1254, 1260	J (all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4LCLCSQ262348 (DUP-19-SA5DN -QC-070611 SL -190-SA5DN -SB-4.0-5.0 SL -190-SA5DN -SB-9.0-10.0 SL -191-SA5DN -SB-4.0-5.0 SL -191-SA5DN -SB-9.0-10.0 SL -200-SA5DN -SB-4.0-5.0 SL -200-SA5DN -SB-9.0-10.0 SL -201-SA5DN -SB-4.0-5.0 SL -201-SA5DN -SB-9.0-10.0 SL -205-SA5DN -SB-4.0-5.0 SL -205-SA5DN -SB-9.0-10.0)	PENTACHLOROPHENOL	107	-	35.00-106.00	-	PENTACHLOROPHENOL	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
P5LBLCSQ261900 (DUP-19-SA5DN-QC-070611 SL-190-SA5DN-SB-4.0-5.0 SL-190-SA5DN-SB-9.0-10.0 SL-191-SA5DN-SB-4.0-5.0 SL-191-SA5DN-SB-9.0-10.0 SL-200-SA5DN-SB-4.0-5.0 SL-200-SA5DN-SB-9.0-10.0 SL-201-SA5DN-SB-4.0-5.0 SL-201-SA5DN-SB-9.0-10.0 SL-205-SA5DN-SB-4.0-5.0 SL-205-SA5DN-SB-9.0-10.0)	N-NITROSODIMETHYLAMINE	136	-	55.00-118.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
MOISTURE	13.7	14.5	6		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
FLUORIDE	2.8	3.2	13	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
ALUMINUM	32200	31400	3	50.00	No Qualifiers Applied
CALCIUM	19900	24300	20	50.00	
IRON	33100	35400	7	50.00	
LITHIUM	28.3	27.4	3	50.00	
MAGNESIUM	7780	8190	5	50.00	
MANGANESE	443	417	6	50.00	
PHOSPHORUS	440	542	21	50.00	
POTASSIUM	6100	6020	1	50.00	
SODIUM	93.2	108	15	50.00	
STRONTIUM	43.8	62.2	35	50.00	
TIN	3.43	3.45	1	50.00	
TITANIUM	1570	1560	1	50.00	
Zirconium	6.38	7.93	22	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
ANTIMONY	0.337	0.230	38	50.00	No Qualifiers Applied
ARSENIC	9.25	7.06	27	50.00	
BARIUM	180	126	35	50.00	
BERYLLIUM	1.30	0.966	29	50.00	
CADMIUM	0.454	0.359	23	50.00	
CHROMIUM	56.4	44.8	23	50.00	
COBALT	17.1	13.0	27	50.00	
COPPER	26.7	21.9	20	50.00	
LEAD	14.3	10.3	33	50.00	
MOLYBDENUM	0.688	0.527	27	50.00	
NICKEL	31.9	24.7	25	50.00	
SELENIUM	0.243	0.221	9	50.00	
SILVER	0.0445	0.0681	42	50.00	
THALLIUM	0.529	0.348	41	50.00	
VANADIUM	108	85.2	24	50.00	
ZINC	109	88.2	21	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
HEXAVALENT CHROMIUM	0.58	0.66	13	50.00	No Qualifiers Applied

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
ACETONE	22	18	20	50.00	No Qualifiers Applied
METHYLENE CHLORIDE	14	7.2	64	50.00	J(all detects)
TOLUENE	0.11	4.1 U	200	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
BIS(2-ETHYLHEXYL)PHTHALATE	14	13	7	50.00	No Qualifiers Applied
Di-n-octylphthalate	7.0	21 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
PH	7.88	7.90	0	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-191-SA5DN-SB-4.0-5.0	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-19-SA5DN-QC-070611	SODIUM	J	108	115	PQL	mg/Kg	J (all detects)
	TIN	J	3.45	11.5	PQL	mg/Kg	
SL-190-SA5DN-SB-4.0-5.0	SODIUM	J	102	113	PQL	mg/Kg	J (all detects)
	TIN	J	3.41	11.3	PQL	mg/Kg	
SL-190-SA5DN-SB-9.0-10.0	TIN	J	3.61	11.4	PQL	mg/Kg	J (all detects)
SL-191-SA5DN-SB-4.0-5.0	SODIUM	J	105	116	PQL	mg/Kg	J (all detects)
	TIN	J	3.65	11.6	PQL	mg/Kg	
SL-191-SA5DN-SB-9.0-10.0	TIN	J	3.59	11.3	PQL	mg/Kg	J (all detects)
SL-200-SA5DN-SB-4.0-5.0	SODIUM	J	93.2	111	PQL	mg/Kg	J (all detects)
	TIN	J	3.43	11.1	PQL	mg/Kg	
SL-200-SA5DN-SB-9.0-10.0	TIN	J	3.66	11.6	PQL	mg/Kg	J (all detects)
SL-201-SA5DN-SB-4.0-5.0	SODIUM	J	114	116	PQL	mg/Kg	J (all detects)
	TIN	J	2.84	11.6	PQL	mg/Kg	
SL-201-SA5DN-SB-9.0-10.0	TIN	J	2.94	11.7	PQL	mg/Kg	J (all detects)
SL-205-SA5DN-SB-4.0-5.0	SODIUM	J	99.0	111	PQL	mg/Kg	J (all detects)
	TIN	J	3.34	11.1	PQL	mg/Kg	
SL-205-SA5DN-SB-9.0-10.0	TIN	J	3.45	11.5	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-19-SA5DN-QC-070611	SELENIUM	J	0.221	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0681	0.112	PQL	mg/Kg	
SL-190-SA5DN-SB-4.0-5.0	SELENIUM	J	0.233	0.449	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0536	0.112	PQL	mg/Kg	
SL-190-SA5DN-SB-9.0-10.0	SELENIUM	J	0.136	0.455	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0717	0.114	PQL	mg/Kg	
SL-191-SA5DN-SB-4.0-5.0	SELENIUM	J	0.218	0.457	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0485	0.114	PQL	mg/Kg	
SL-191-SA5DN-SB-9.0-10.0	SELENIUM	J	0.160	0.465	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0486	0.116	PQL	mg/Kg	
SL-200-SA5DN-SB-4.0-5.0	SELENIUM	J	0.243	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0445	0.115	PQL	mg/Kg	
SL-200-SA5DN-SB-9.0-10.0	SELENIUM	J	0.192	0.456	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0454	0.114	PQL	mg/Kg	
SL-201-SA5DN-SB-4.0-5.0	SELENIUM	J	0.258	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0702	0.112	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-201-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.204	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.179	0.459	PQL	mg/Kg	
	SILVER	J	0.0688	0.115	PQL	mg/Kg	
SL-205-SA5DN-SB-4.0-5.0	SELENIUM	J	0.206	0.454	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0548	0.114	PQL	mg/Kg	
SL-205-SA5DN-SB-9.0-10.0	SELENIUM	J	0.361	0.463	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0563	0.116	PQL	mg/Kg	

Method: 6850

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-191-SA5DN-SB-4.0-5.0	PERCHLORATE	J	4.8	5.8	PQL	ug/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-19-SA5DN-QC-070611	HEXAVALENT CHROMIUM	J	0.66	1.2	PQL	mg/Kg	J (all detects)
SL-190-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.61	1.2	PQL	mg/Kg	J (all detects)
SL-190-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.44	1.2	PQL	mg/Kg	J (all detects)
SL-191-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.61	1.2	PQL	mg/Kg	J (all detects)
SL-191-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.61	1.2	PQL	mg/Kg	J (all detects)
SL-200-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.58	1.2	PQL	mg/Kg	J (all detects)
SL-200-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.45	1.2	PQL	mg/Kg	J (all detects)
SL-201-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.67	1.2	PQL	mg/Kg	J (all detects)
SL-201-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.35	1.2	PQL	mg/Kg	J (all detects)
SL-205-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.77	1.2	PQL	mg/Kg	J (all detects)
SL-205-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.72	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA5DN-SB-9.0-10.0	MERCURY	J	0.0104	0.115	PQL	mg/Kg	J (all detects)
SL-191-SA5DN-SB-9.0-10.0	MERCURY	J	0.0092	0.115	PQL	mg/Kg	J (all detects)
SL-205-SA5DN-SB-4.0-5.0	MERCURY	J	0.0095	0.111	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE194 **Laboratory: LL**

EDD Filename: DE194_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.1	PQL	ug/Kg	J (all detects)
SL-191-SA5DN-SB-4.0-5.0	TOLUENE	J	0.08	3.9	PQL	ug/Kg	J (all detects)
SL-191-SA5DN-SB-9.0-10.0	CHLOROFORM TOLUENE	J J	0.13 0.16	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-200-SA5DN-SB-4.0-5.0	TOLUENE	J	0.11	4.2	PQL	ug/Kg	J (all detects)
SL-201-SA5DN-SB-4.0-5.0	TOLUENE	J	0.12	4.4	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	390	PQL	ug/Kg	J (all detects)
SL-200-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	390	PQL	ug/Kg	J (all detects)
SL-205-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	35	390	PQL	ug/Kg	J (all detects)
SL-205-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	390	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-19-SA5DN-QC-070611	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
SL-190-SA5DN-SB-4.0-5.0	Di-n-octylphthalate	J	7.1	21	PQL	ug/Kg	J (all detects)
SL-190-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	12 7.2	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-191-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	J (all detects)
SL-191-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	11 7.5	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-200-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate Di-n-octylphthalate	J J J	14 11 7.0	21 21 21	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-200-SA5DN-SB-9.0-10.0	Di-n-octylphthalate	J	7.1	21	PQL	ug/Kg	J (all detects)
SL-201-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	13 9.5	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-201-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.7	21	PQL	ug/Kg	J (all detects)
SL-205-SA5DN-SB-4.0-5.0	Di-n-octylphthalate	J	7.3	21	PQL	ug/Kg	J (all detects)

LDC #: 26277U4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/3/11
SDG #: DE194 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MH
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Cr, Fe, Pb, Mg, Mn, K, Ti, V, Zn 4X
VII.	Duplicate Sample Analysis	SW	cd, Mo, Ag, Tl, <5X
VIII.	Laboratory Control Samples (LCS)	~~SW~~ A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ag, Ba, Cr, Co, Pb, Ni, V, Zn
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-190-SA5DN-SB-4.0-5.0	11	DUP-19-SA5DN-QC-070611	21		31	
2	SL-190-SA5DN-SB-9.0-10.0	12	SL-200-SA5DN-SB-4.0-5.0MS	22		32	
3	SL-191-SA5DN-SB-4.0-5.0	13	SL-200-SA5DN-SB-4.0-5.0MSD	23		33	
4	SL-191-SA5DN-SB-9.0-10.0	14	SL-200-SA5DN-SB-4.0-5.0DUP	24		34	
5	SL-200-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-200-SA5DN-SB-9.0-10.0	16		26		36	
7	SL-201-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-201-SA5DN-SB-9.0-10.0	18		28		38	
9	SL-205-SA5DN-SB-4.0-5.0	19		29		39	
10	SL-205-SA5DN-SB-9.0-10.0	20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE194
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6337088BKG Matrix Spike Lab Sample ID: 6337089MS Matrix Spike Duplicate Lab Sample ID: 6337090MSD
% Solids for Sample: 86.3
Batch Id(s): P18808C, P18826A, P18811B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		32180.4171		38947.3745		38489.5235		229.4552	227.2056	MG/KG	2949		2777		1			20	P
Antimony	121	0.3366		1.0643		1.1389		1.3370	1.3370	MG/KG	54	N	60	N	7		75 - 125	20	MS
Arsenic	75	9.2516		12.0242		11.6075		2.2284	2.2284	MG/KG	124		106		4			20	MS
Barium	137	180.0076		185.0655		192.2186		11.1418	11.1418	MG/KG	45		110		4			20	MS
Beryllium	9	1.2987		2.3331		2.4245		0.8913	0.8913	MG/KG	116		126	N	4		75 - 125	20	MS
Boron		0.4011	U	229.9921		226.1627		229.4552	227.2056	MG/KG	100		100		2		84 - 115	20	P
Cadmium	111	0.4539		1.7892		1.9565		1.1142	1.1142	MG/KG	120		135	N	9		75 - 125	20	MS
Calcium		19874.3504		23763.9136		22898.3391		458.9103	454.4112	MG/KG	848		665		4			20	P
Chromium	52	56.3542		72.7115		75.3855		11.1418	11.1418	MG/KG	147		171		4			20	MS
Cobalt	59	17.0646		89.8921		94.2597		55.7091	55.7091	MG/KG	131	N	139	N	5		75 - 125	20	MS
Copper	63	26.7315		39.5312		42.6954		11.1418	11.1418	MG/KG	115		143	N	8		75 - 125	20	MS
Iron		33077.9537		35426.9128		36080.4989		114.7276	113.6028	MG/KG	2047		2643		2			20	P
Lead	208	14.2744		17.9673		18.6291		3.3425	3.3425	MG/KG	110		130		4			20	MS
Lithium		28.3069		145.2795		143.2134		114.7276	113.6028	MG/KG	102		101		1		82 - 114	20	P
Magnesium		7778.3080		8540.7983		8410.7877		229.4552	227.2056	MG/KG	332		278		2			20	P
Manganese		442.7545		475.0295		456.6094		57.3638	56.8014	MG/KG	56		24		4			20	P
Mercury		0.0080	U	0.1754		0.1794		0.1761	0.1838	MG/KG	100		98		2		80 - 120	20	CV
Molybdenum	98	0.6881		14.4665		15.3356		11.1418	11.1418	MG/KG	124		131	N	6		75 - 125	20	MS
Nickel	60	31.9402		44.7455		46.3054		11.1418	11.1418	MG/KG	115		129	N	3		75 - 125	20	MS
Phosphorus		439.8097		565.2525		550.6839		114.7276	113.6028	MG/KG	109		98		3		75 - 125	20	P
Potassium		6101.7604		7954.1996		7963.2631		1147.2758	1136.0280	MG/KG	161		164		0			20	P
Selenium	78	0.2428	B	2.7788		2.9325		2.2284	2.2284	MG/KG	114		121		5		75 - 125	20	MS
Silver	107	0.0445	B	13.9317		14.5289		11.1418	11.1418	MG/KG	125		130	N	4		75 - 125	20	MS
Sodium		93.2358	B	1232.3773		1217.9754		1147.2758	1136.0280	MG/KG	99		99		1		75 - 125	20	P
Strontium		43.7773		159.4794		157.0491		114.7276	113.6028	MG/KG	101		100		2		75 - 115	20	P
Thallium	203	0.5289		1.0647		1.0656		0.4457	0.4457	MG/KG	120		120		0		75 - 125	20	MS
Tin		3.4295	B	420.3114		407.2013		458.9103	454.4112	MG/KG	91		89		3		80 - 110	20	P
Titanium		1569.8391		1958.3803		1960.9888		114.7276	113.6028	MG/KG	339		344		0			20	P
Vanadium	51	108.3487		125.8356		130.8717		11.1418	11.1418	MG/KG	157		202		4			20	MS
Zinc	66	109.4272		115.7412		120.5098		11.1418	11.1418	MG/KG	57		99		4			20	MS
Zirconium		6.3787		100.5105		101.8665		114.7276	113.6028	MG/KG	82		84		1		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer CV = Cold Vapor
MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE194
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6337088BKG
% Solids for Duplicate: 86.2
Batch ID(s): P18808C, P18826A, P18811B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6337091DUP
% Solids for Sample: 86.3

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			32180.4171		31746.8316		1		P
Antimony	121	0.2	0.3366		0.2833		17		MS
Arsenic	75		9.2516		7.0200		27	*	MS
Barium	137		180.0076		132.8173		30	*	MS
Beryllium	9		1.2987		1.0627		20		MS
Boron			0.4011	U	0.4090	U			P
Cadmium	111	0.1	0.4539		0.3179		35	*	MS
Calcium			19874.3504		18897.3372		5		P
Chromium	52		56.3542		44.0774		24	*	MS
Cobalt	59		17.0646		12.2017		33	*	MS
Copper	63		26.7315		21.0150		24	*	MS
Iron			33077.9537		34383.9150		4		P
Lead	208		14.2744		10.9642		26	*	MS
Lithium			28.3069		27.5918		3		P
Magnesium			7778.3080		7933.0027		2		P
Manganese			442.7545		461.9646		4		P
Mercury			0.0080	U	0.0082	U			CV
Molybdenum	98	0.1	0.6881		0.5105		30	*	MS
Nickel	60		31.9402		23.5125		30	*	MS
Phosphorus			439.8097		481.4350		9		P
Potassium			6101.7604		6222.2332		2		P
Selenium	78		0.2428	B	0.2585	B	6		MS
Silver	107		0.0445	B	0.0623	B	33		MS
Sodium			93.2358	B	95.0992	B	2		P
Strontium			43.7773		44.2483		1		P
Thallium	203	0.1	0.5289		0.3868		31	*	MS
Tin			3.4295	B	3.3774	B	2		P
Titanium			1569.8391		1530.9340		3		P
Vanadium	51		108.3487		83.6999		26	*	MS
Zinc	66		109.4272		82.7549		28	*	MS
Zirconium		5.6	6.3787		7.6591		18		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE194
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6337088BKG Serial Dilution Lab Sample ID: 6337088L
Batch ID(s): P18808C, P18826A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		288825.6800		298925.4500		3		P
Antimony	121	1.4670		1.8500	U	100		MS
Arsenic	75	40.3200		33.1650		18	E	MS
Barium	137	784.5000		652.5000		17	E	MS
Beryllium	9	5.6600		5.1650		9		MS
Boron		3.6000	U	18.0000	U			P
Cadmium	111	1.9780		1.8305	B	7		MS
Calcium		178376.2700		188725.3000		6		P
Chromium	52	245.6000		206.3000		16	E	MS
Cobalt	59	74.3700		63.9000		14	E	MS
Copper	63	116.5000		105.9500		9		MS
Iron		59376.2500		61865.6500		4		P
Lead	208	62.2100		52.0500		16	E	MS
Lithium		254.0600		270.9000		7		P
Magnesium		69811.8700		73788.1000		6		P
Manganese		3973.8100		4163.6000		5		P
Molybdenum	98	2.9990		3.6235		21		MS
Nickel	60	139.2000		119.6000		14	E	MS
Phosphorus		3947.3800		3896.5000		1		P
Potassium		54764.5200		57215.1000		4		P
Selenium	78	1.0580	B	1.4500	U	100		MS
Silver	107	0.1939	B	0.3550	U	100		MS
Sodium		836.8100	B	889.7500	B	6		P
Strontium		392.9100		402.7000		2		P
Thallium	203	2.3050		2.0835	B	10		MS
Tin		30.7800	B	26.7500	B	13		P
Titanium		14089.6200		14559.5000		3		P
Vanadium	51	472.2000		387.1000		18	E	MS
Zinc	66	476.9000		410.4000		14	E	MS
Zirconium		57.2500		100.3000	B	75		P

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

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

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

DE194 34884

SAMPLE DELIVERY GROUP

DE195

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	TB-070711	6338344	TB	5030B	8260B	III
07-Jul-2011	TB-070711	6338344	TB	5030B	8260B SIM	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3050B	6010B	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3050B	6020	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3060A	7199	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3550B	8082	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3550B	8270C	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	3550B	8270C SIM	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	5035	8260B	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	5035	8260B SIM	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	METHOD	300.0	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	METHOD	314.0	III
07-Jul-2011	SL-164-SA5DN-SB-4.0-5.0	6338330	N	METHOD	7471A	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3050B	6010B	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3050B	6020	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3060A	7199	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3550B	8082	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3550B	8270C	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	3550B	8270C SIM	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	METHOD	300.0	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	METHOD	314.0	III
07-Jul-2011	SL-164-SA5DN-SB-9.0-10.0	6338331	N	METHOD	7471A	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3050B	6010B	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3050B	6020	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3060A	7199	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3550B	8270C	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	3550B	8270C SIM	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	METHOD	300.0	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	METHOD	314.0	III
07-Jul-2011	SL-166-SA5DN-SB-9.0-10.0	6338336	N	METHOD	7471A	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3050B	6010B	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3050B	6020	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3060A	7199	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3550B	8082	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3550B	8270C	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	3550B	8270C SIM	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	5035	8260B	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	5035	8260B SIM	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	METHOD	300.0	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	METHOD	314.0	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0	6338332	N	METHOD	7471A	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3050B	6010B	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3050B	6020	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3060A	7199	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3550B	8082	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3550B	8270C	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	3550B	8270C SIM	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	5035	8260B	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	5035	8260B SIM	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	METHOD	300.0	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338333	MS	METHOD	7471A	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	3050B	6010B	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	3050B	6020	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	3060A	7199	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	METHOD	300.0	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	METHOD	314.0	III
07-Jul-2011	SL-166-SA5DN-SB-4.0-5.0DU	6338335	DUP	METHOD	7471A	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3050B	6010B	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3050B	6020	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3060A	7199	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3550B	8082	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3550B	8270C	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	3550B	8270C SIM	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	5035	8260B	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	5035	8260B SIM	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	METHOD	300.0	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	METHOD	314.0	III
07-Jul-2011	DUP20-SA5DN-QC-070711	6338343	FD	METHOD	7471A	III
07-Jul-2011	DUP20-SA5DN-QC-070711DUP	P338343D270006B	DUP	METHOD	300.0	III
07-Jul-2011	DUP20-SA5DN-QC-070711DUP	P338343D271817A	DUP	METHOD	314.0	III
07-Jul-2011	DUP20-SA5DN-QC-070711MS	P338343R270050B	MS	METHOD	300.0	III
07-Jul-2011	DUP20-SA5DN-QC-070711MS	P338343R271903A	MS	METHOD	314.0	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3050B	6010B	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3050B	6020	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3060A	7199	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3550B	8270C	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	3550B	8270C SIM	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	5035	8260B	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	5035	8260B SIM	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	METHOD	300.0	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	METHOD	314.0	III
07-Jul-2011	SL-167-SA5DN-SB-4.0-5.0	6338337	N	METHOD	7471A	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3050B	6010B	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3050B	6020	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3060A	7199	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3550B	8082	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3550B	8270C	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	3550B	8270C SIM	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	METHOD	300.0	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	METHOD	314.0	III
07-Jul-2011	SL-167-SA5DN-SB-9.0-10.0	6338338	N	METHOD	7471A	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3050B	6010B	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3050B	6020	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3060A	7199	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3550B	8082	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3550B	8270C	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	3550B	8270C SIM	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	METHOD	300.0	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	METHOD	314.0	III
07-Jul-2011	SL-168-SA5DN-SB-9.0-10.0	6338340	N	METHOD	7471A	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3050B	6020	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3060A	7199	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3550B	8082	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3550B	8270C	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	3550B	8270C SIM	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	5035	8260B	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	5035	8260B SIM	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	METHOD	300.0	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	METHOD	314.0	III
07-Jul-2011	SL-168-SA5DN-SB-4.0-5.0	6338339	N	METHOD	7471A	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	3005A	6010B	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	3020A	6020	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	3510C	8082	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	3510C	8270C	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	3510C	8270C SIM	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	5030B	8260B	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	5030B	8260B SIM	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	Gen Prep	300.0	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	Gen Prep	314.0	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	Gen Prep	7199	III
07-Jul-2011	EB21-SA5DN-SB-070711	6338377	EB	METHOD	7470A	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3050B	6010B	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3050B	6020	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3060A	7199	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3550B	8082	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	3550B	8270C SIM	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	5035	8260B	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	5035	8260B SIM	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	METHOD	300.0	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	METHOD	314.0	III
07-Jul-2011	SL-169-SA5DN-SB-4.0-5.0	6338341	N	METHOD	7471A	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3050B	6010B	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3050B	6020	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3060A	7199	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3550B	8082	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3550B	8270C	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	3550B	8270C SIM	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	METHOD	300.0	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	METHOD	314.0	III
07-Jul-2011	SL-169-SA5DN-SB-7.5-8.5	6338342	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE195 Laboratory: LL

EDD Filename: DE195_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	8.2		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.9		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.7		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.3		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.94	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.7		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.96	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-169-SA5DN-SB-7.5-8.5 *Collected:* 7/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	9.6		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB21-SA5DN-SB-070711 *Collected:* 7/7/2011 1:30:00 PM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0085	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
CALCIUM	0.0768	J	0.0705	MDL	0.200	PQL	mg/L	J	Z
IRON	0.0221	J	0.0141	MDL	0.200	PQL	mg/L	J	Z
STRONTIUM	0.00055	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.978	J	0.411	MDL	5.71	PQL	mg/Kg	U	F
SODIUM	91.4	J	6.80	MDL	114	PQL	mg/Kg	J	Z
TIN	2.84	J	0.366	MDL	11.4	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-164-SA5DN-SB-4.0-5.0 **Collected:** 7/7/2011 8:05:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.37	J	0.359	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-164-SA5DN-SB-9.0-10.0 **Collected:** 7/7/2011 8:10:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.37	J	0.357	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-166-SA5DN-SB-4.0-5.0 **Collected:** 7/7/2011 9:35:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.867	J	0.411	MDL	5.70	PQL	mg/Kg	U	F
SODIUM	96.6	J	6.79	MDL	114	PQL	mg/Kg	J	Z
TIN	3.45	J	0.365	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-166-SA5DN-SB-9.0-10.0 **Collected:** 7/7/2011 9:30:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	94.8	J	6.77	MDL	114	PQL	mg/Kg	J	Z
TIN	3.02	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-167-SA5DN-SB-4.0-5.0 **Collected:** 7/7/2011 10:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.54	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-167-SA5DN-SB-9.0-10.0 **Collected:** 7/7/2011 10:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.24	J	0.360	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-168-SA5DN-SB-4.0-5.0 **Collected:** 7/7/2011 1:25:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.51	J	0.363	MDL	11.4	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	109	J	6.70	MDL	113	PQL	mg/Kg	J	Z
TIN	3.05	J	0.360	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.03	J	0.382	MDL	11.9	PQL	mg/Kg	U	B

Sample ID: SL-169-SA5DN-SB-7.5-8.5 *Collected:* 7/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.68	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	5.44	J	0.514	MDL	5.59	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.248	J	0.0669	MDL	0.462	PQL	mg/Kg	J	Z

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	181		0.122	MDL	0.462	PQL	mg/Kg	J	A

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.333		0.0854	MDL	0.231	PQL	mg/Kg	J	Q
ARSENIC	10.7		0.0923	MDL	0.462	PQL	mg/Kg	J	A
BERYLLIUM	1.11		0.0185	MDL	0.115	PQL	mg/Kg	J	Q, E
CADMIUM	0.564		0.0508	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	42.6		0.138	MDL	0.462	PQL	mg/Kg	J	Q, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 ***Collected:*** 7/7/2011 9:40:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	25.4		0.0923	MDL	0.462	PQL	mg/Kg	J	Q, A
LEAD	13.1		0.0118	MDL	0.231	PQL	mg/Kg	J	Q, A
NICKEL	31.3		0.115	MDL	0.462	PQL	mg/Kg	J	Q
SILVER	0.0669	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.472		0.0346	MDL	0.115	PQL	mg/Kg	J	Q
ZINC	95.5		0.646	MDL	3.46	PQL	mg/Kg	J	A

Sample ID: SL-164-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 8:05:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.207	J	0.0663	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 8:05:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	160		0.303	MDL	1.14	PQL	mg/Kg	J	A

Sample ID: SL-164-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 8:05:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.371		0.0846	MDL	0.229	PQL	mg/Kg	J	Q
ARSENIC	14.6		0.0915	MDL	0.457	PQL	mg/Kg	J	A
BERYLLIUM	1.41		0.0183	MDL	0.114	PQL	mg/Kg	J	Q, E
CADMIUM	0.299		0.0503	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	46.1		0.137	MDL	0.457	PQL	mg/Kg	J	Q, Q
COPPER	24.0		0.0915	MDL	0.457	PQL	mg/Kg	J	Q, A
LEAD	14.5		0.0117	MDL	0.229	PQL	mg/Kg	J	Q, A
NICKEL	36.7		0.114	MDL	0.457	PQL	mg/Kg	J	Q
SILVER	0.103	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.544		0.0343	MDL	0.114	PQL	mg/Kg	J	Q
ZINC	99.4		0.640	MDL	3.43	PQL	mg/Kg	J	A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	174		0.118	MDL	0.447	PQL	mg/Kg	J	A

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.294		0.0826	MDL	0.223	PQL	mg/Kg	J	Q
ARSENIC	14.4		0.0893	MDL	0.447	PQL	mg/Kg	J	A
BERYLLIUM	1.31		0.0179	MDL	0.112	PQL	mg/Kg	J	Q, E
CADMIUM	0.294		0.0491	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	39.0		0.134	MDL	0.447	PQL	mg/Kg	J	Q, Q
COPPER	20.9		0.0893	MDL	0.447	PQL	mg/Kg	J	Q, A
LEAD	12.0		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, A
NICKEL	32.2		0.112	MDL	0.447	PQL	mg/Kg	J	Q
SILVER	0.0810	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.445		0.0335	MDL	0.112	PQL	mg/Kg	J	Q
ZINC	81.4		0.625	MDL	3.35	PQL	mg/Kg	J	A

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.263	J	0.0649	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	167		0.119	MDL	0.447	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-166-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 9:35:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.311		0.0828	MDL	0.224	PQL	mg/Kg	J	Q
ARSENIC	9.85		0.0895	MDL	0.447	PQL	mg/Kg	J	A
BERYLLIUM	1.06		0.0179	MDL	0.112	PQL	mg/Kg	J	Q, E
CADMIUM	0.451		0.0492	MDL	0.112	PQL	mg/Kg	J	Q
CHROMIUM	39.1		0.134	MDL	0.447	PQL	mg/Kg	J	Q, Q
COPPER	20.3		0.0895	MDL	0.447	PQL	mg/Kg	J	Q, A
LEAD	11.4		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, A
NICKEL	26.7		0.112	MDL	0.447	PQL	mg/Kg	J	Q
SILVER	0.0582	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.420		0.0336	MDL	0.112	PQL	mg/Kg	J	Q
ZINC	81.5		0.626	MDL	3.36	PQL	mg/Kg	J	A

Sample ID: SL-166-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 9:30:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0673	MDL	0.464	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 9:30:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.123	MDL	0.464	PQL	mg/Kg	J	A

Sample ID: SL-166-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 9:30:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.196	J	0.0858	MDL	0.232	PQL	mg/Kg	J	Z, Q
ARSENIC	13.3		0.0928	MDL	0.464	PQL	mg/Kg	J	A
BERYLLIUM	1.19		0.0186	MDL	0.116	PQL	mg/Kg	J	Q, E
CADMIUM	0.363		0.0510	MDL	0.116	PQL	mg/Kg	J	Q
CHROMIUM	41.3		0.139	MDL	0.464	PQL	mg/Kg	J	Q, Q
COPPER	21.3		0.0928	MDL	0.464	PQL	mg/Kg	J	Q, A
LEAD	12.2		0.0118	MDL	0.232	PQL	mg/Kg	J	Q, A
NICKEL	31.1		0.116	MDL	0.464	PQL	mg/Kg	J	Q
SILVER	0.0550	J	0.0165	MDL	0.116	PQL	mg/Kg	J	Z, Q
THALLIUM	0.447		0.0348	MDL	0.116	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-166-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 9:30:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	76.9		0.650	MDL	3.48	PQL	mg/Kg	J	A

Sample ID: SL-167-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 10:40:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.226	J	0.0666	MDL	0.459	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 10:40:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	164		0.122	MDL	0.459	PQL	mg/Kg	J	A

Sample ID: SL-167-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 10:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.317		0.0850	MDL	0.230	PQL	mg/Kg	J	Q
ARSENIC	12.8		0.0918	MDL	0.459	PQL	mg/Kg	J	A
BERYLLIUM	1.14		0.0184	MDL	0.115	PQL	mg/Kg	J	Q, E
CADMIUM	0.323		0.0505	MDL	0.115	PQL	mg/Kg	J	Q
CHROMIUM	44.6		0.138	MDL	0.459	PQL	mg/Kg	J	Q, Q
COPPER	22.4		0.0918	MDL	0.459	PQL	mg/Kg	J	Q, A
LEAD	12.1		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, A
NICKEL	30.8		0.115	MDL	0.459	PQL	mg/Kg	J	Q
SILVER	0.0350	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, Q
THALLIUM	0.457		0.0344	MDL	0.115	PQL	mg/Kg	J	Q
ZINC	96.9		0.643	MDL	3.44	PQL	mg/Kg	J	A

Sample ID: SL-167-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 10:45:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.130	J	0.0646	MDL	0.446	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	168		0.118	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206	J	0.0824	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	10.1		0.0891	MDL	0.446	PQL	mg/Kg	J	A
BERYLLIUM	0.974		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.426		0.0490	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	39.2		0.134	MDL	0.446	PQL	mg/Kg	J	Q, Q
COPPER	19.6		0.0891	MDL	0.446	PQL	mg/Kg	J	Q, A
LEAD	11.0		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, A
NICKEL	28.1		0.111	MDL	0.446	PQL	mg/Kg	J	Q
SILVER	0.0555	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.434		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	80.9		0.624	MDL	3.34	PQL	mg/Kg	J	A

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0671	MDL	0.463	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	171		0.123	MDL	0.463	PQL	mg/Kg	J	A

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.208	J	0.0857	MDL	0.231	PQL	mg/Kg	J	Z, Q
ARSENIC	9.26		0.0926	MDL	0.463	PQL	mg/Kg	J	A
BERYLLIUM	1.02		0.0185	MDL	0.116	PQL	mg/Kg	J	Q, E
CADMIUM	0.371		0.0509	MDL	0.116	PQL	mg/Kg	J	Q
CHROMIUM	40.8		0.139	MDL	0.463	PQL	mg/Kg	J	Q, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: SL-168-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 1:25:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	22.2		0.0926	MDL	0.463	PQL	mg/Kg	J	Q, A
LEAD	11.6		0.0118	MDL	0.231	PQL	mg/Kg	J	Q, A
NICKEL	30.0		0.116	MDL	0.463	PQL	mg/Kg	J	Q
SILVER	0.0584	J	0.0164	MDL	0.116	PQL	mg/Kg	J	Z, Q
THALLIUM	0.397		0.0347	MDL	0.116	PQL	mg/Kg	J	Q
ZINC	87.0		0.648	MDL	3.47	PQL	mg/Kg	J	A

Sample ID: SL-168-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 1:15:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0975	J	0.0647	MDL	0.446	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 1:15:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	162		0.118	MDL	0.446	PQL	mg/Kg	J	A

Sample ID: SL-168-SA5DN-SB-9.0-10.0 ***Collected:*** 7/7/2011 1:15:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.167	J	0.0825	MDL	0.223	PQL	mg/Kg	J	Z, Q
ARSENIC	9.88		0.0892	MDL	0.446	PQL	mg/Kg	J	A
BERYLLIUM	0.941		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.367		0.0490	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	34.6		0.134	MDL	0.446	PQL	mg/Kg	J	Q, Q
COPPER	20.7		0.0892	MDL	0.446	PQL	mg/Kg	J	Q, A
LEAD	10.7		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, A
NICKEL	30.5		0.111	MDL	0.446	PQL	mg/Kg	J	Q
SILVER	0.0634	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.416		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	85.7		0.624	MDL	3.34	PQL	mg/Kg	J	A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-169-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 2:30:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.145	J	0.0692	MDL	0.477	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 2:30:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	187		0.126	MDL	0.477	PQL	mg/Kg	J	A

Sample ID: SL-169-SA5DN-SB-4.0-5.0 ***Collected:*** 7/7/2011 2:30:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.304		0.0883	MDL	0.239	PQL	mg/Kg	J	Q
ARSENIC	11.2		0.0954	MDL	0.477	PQL	mg/Kg	J	A
BERYLLIUM	1.22		0.0191	MDL	0.119	PQL	mg/Kg	J	Q, E
CADMIUM	0.455		0.0525	MDL	0.119	PQL	mg/Kg	J	Q
CHROMIUM	46.8		0.143	MDL	0.477	PQL	mg/Kg	J	Q, Q
COPPER	27.1		0.0954	MDL	0.477	PQL	mg/Kg	J	Q, A
LEAD	15.9		0.0122	MDL	0.239	PQL	mg/Kg	J	Q, A
NICKEL	34.5		0.119	MDL	0.477	PQL	mg/Kg	J	Q
SILVER	0.0561	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z, Q
THALLIUM	0.460		0.0358	MDL	0.119	PQL	mg/Kg	J	Q
ZINC	107		0.668	MDL	3.58	PQL	mg/Kg	J	A

Sample ID: SL-169-SA5DN-SB-7.5-8.5 ***Collected:*** 7/7/2011 2:35:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.117	MDL	0.443	PQL	mg/Kg	J	A

Sample ID: SL-169-SA5DN-SB-7.5-8.5 ***Collected:*** 7/7/2011 2:35:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.0819	MDL	0.221	PQL	mg/Kg	J	Z, Q
ARSENIC	5.69		0.0886	MDL	0.443	PQL	mg/Kg	J	A
BERYLLIUM	0.710		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.308		0.0487	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	26.0		0.133	MDL	0.443	PQL	mg/Kg	J	Q, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-169-SA5DN-SB-7.5-8.5 *Collected:* 7/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.4		0.0886	MDL	0.443	PQL	mg/Kg	J	Q, A
LEAD	8.14		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, A
NICKEL	18.1		0.111	MDL	0.443	PQL	mg/Kg	J	Q
SILVER	0.0680	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.282		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	55.1		0.620	MDL	3.32	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.62	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.39	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.97	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.40	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-169-SA5DN-SB-7.5-8.5 *Collected:* 7/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.53	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0080	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0130	J	0.0082	MDL	0.116	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB21-SA5DN-SB-070711 *Collected:* 7/7/2011 1:30:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,3'-DICHLOROBENZIDINE	2	U	2	MDL	5	PQL	ug/L	UJ	L, E
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 8:05:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 Laboratory: LL

EDD Filename: DE195_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 9:30:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 10:40:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	390	U	390	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	400	U	400	MDL	1200	PQL	ug/Kg	UJ	L

Sample ID: SL-169-SA5DN-SB-7.5-8.5 *Collected:* 7/7/2011 2:35:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 Laboratory: LL

EDD Filename: DE195_v1 eQAPP Name: CDM_SSFL_110509

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

Sample ID: EB21-SA5DN-SB-070711 *Collected:* 7/7/2011 1:30:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.20	J	0.051	MDL	1.0	PQL	ug/L	U	B
Di-n-butylphthalate	0.093	J	0.051	MDL	1.0	PQL	ug/L	U	B

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

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 8:05:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.9	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.8	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

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

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 9:30:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	26		6.9	MDL	21	PQL	ug/Kg	U	B

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

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

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	7.1	MDL	21	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 Laboratory: LL

EDD Filename: DE195_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.88	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.9	MDL	21	PQL	ug/Kg	U	B
CHRYSENE	0.76	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	0.87	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.92	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.88	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	7.2	MDL	21	PQL	ug/Kg	U	B

Method Category: VOA

Method: 8260B **Matrix:** AQ

Sample ID: EB21-SA5DN-SB-070711 *Collected:* 7/7/2011 1:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L
METHYLENE CHLORIDE	3	J	2	MDL	5	PQL	ug/L	J	Z

Sample ID: TB-070711 *Collected:* 7/7/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	18		7.6	MDL	9.0	PQL	ug/Kg	U	B
TOLUENE	0.10	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory:** LL

EDD Filename: DE195_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 0.86

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	19		6.6	MDL	7.9	PQL	ug/Kg	U	B
CHLOROFORM	0.14	J	0.12	MDL	4.0	PQL	ug/Kg	J	Z
TOLUENE	0.09	J	0.08	MDL	4.0	PQL	ug/Kg	J	Z

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES *Dilution:* 0.94

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	17		7.2	MDL	8.7	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	33		0.26	MDL	4.3	PQL	ug/Kg	J	Q
TOLUENE	0.1	J	0.09	MDL	4.3	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 10:40:00 *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	17		7.2	MDL	8.6	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	3.6	J	0.26	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	16		7.1	MDL	8.4	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	3.7	J	0.25	MDL	4.2	PQL	ug/Kg	U	B

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 0.92

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	19		7.4	MDL	8.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	13		0.27	MDL	4.4	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE195

Method Blank Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19648BB220643	7/19/2011 6:43:00 AM	BORON STRONTIUM	0.0043 mg/L 0.00029 mg/L	EB21-SA5DN-SB-070711

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB21-SA5DN-SB-070711(REA2)	BORON	0.0085 mg/L	0.0085U mg/L
EB21-SA5DN-SB-070711(REA2)	STRONTIUM	0.00055 mg/L	0.00055U mg/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19308CB220729	7/14/2011 7:29:00 AM	ALUMINUM CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	14.1 mg/Kg 8.22 mg/Kg 3.41 mg/Kg 0.618 mg/Kg 1.43 mg/Kg 0.0460 mg/Kg 1.60 mg/Kg	DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP20-SA5DN-QC-070711(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	TIN	3.45 mg/Kg	3.45U mg/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	TIN	3.54 mg/Kg	3.54U mg/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	TIN	3.24 mg/Kg	3.24U mg/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	TIN	3.51 mg/Kg	3.51U mg/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19326AB220958A	7/14/2011 9:58:00 AM	COPPER	0.148 mg/Kg	DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5
P19326AB221412A	7/13/2011 2:12:00 PM	VANADIUM	0.0226 mg/Kg	DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB14B211253A	7/12/2011 12:53:00 PM	ACETONE METHYLENE CHLORIDE	10 ug/Kg 1.8 ug/Kg	SL-164-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP20-SA5DN-QC-070711(RES)	ACETONE	18 ug/Kg	18U ug/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	ACETONE	19 ug/Kg	19U ug/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	ACETONE	17 ug/Kg	17U ug/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	ACETONE	17 ug/Kg	17U ug/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.6 ug/Kg	4.3U ug/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	ACETONE	16 ug/Kg	16U ug/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	3.7 ug/Kg	4.2U ug/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	ACETONE	19 ug/Kg	19U ug/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	13 ug/Kg	13U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWC19B261858	7/13/2011 6:58:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE Diethylphthalate Di-n-butylphthalate	0.17 ug/L 0.070 ug/L 0.057 ug/L	EB21-SA5DN-SB-070711

Method Blank Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB21-SA5DN-SB-070711(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	0.20 ug/L	1.0U ug/L
EB21-SA5DN-SB-070711(RES)	Di-n-butylphthalate	0.093 ug/L	1.0U ug/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD19B260648	7/18/2011 6:48:00 AM	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	8.4 ug/Kg 8.0 ug/Kg	DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-164-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	10 ug/Kg	21U ug/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	11 ug/Kg	21U ug/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	21U ug/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	26 ug/Kg	26U ug/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	21U ug/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	11 ug/Kg	21U ug/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	21U ug/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	17 ug/Kg	21U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-166-SA5DN-SB-4.0-5.0MS (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	CADMIUM COPPER NICKEL SILVER THALLIUM	128 141 146 126 127	- - - - -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	CADMIUM COPPER NICKEL SILVER THALLIUM	J (all detects)
SL-166-SA5DN-SB-4.0-5.0MS **SL-166-SA5DN-SB-4.0-5.0MSD** (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	ANTIMONY ARSENIC BERYLLIUM CHROMIUM LEAD VANADIUM ZINC	50 133 - 129 - 127 173	39 49 60 70 66 71 34	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - 23 (20.00) - - - -	ANTIMONY ARSENIC BERYLLIUM CHROMIUM LEAD VANADIUM ZINC	J(all detects) UJ(all non-detects) As, V, Zn, No Qual, >4x
SL-166-SA5DN-SB-4.0-5.0MS **SL-166-SA5DN-SB-4.0-5.0MSD** (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	BARIUM	229	-28	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-166-SA5DN-SB-4.0-5.0MS **SL-166-SA5DN-SB-4.0-5.0MSD** (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	ALUMINUM IRON MAGNESIUM POTASSIUM	1626 318 195 154	2866 1899 400 186	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM IRON MAGNESIUM POTASSIUM	No Qual, >4x

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-166-SA5DN-SB-4.0-5.0MS SL-166-SA5DN-SB-4.0-5.0MSD (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	CALCIUM	-606	-1203	75.00-125.00	-	CALCIUM	No Qual, >4x
SL-166-SA5DN-SB-4.0-5.0MS SL-166-SA5DN-SB-4.0-5.0MSD (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	TITANIUM	445	499 -	75.00-125.00	-	TITANIUM	No Qual, >4x

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-166-SA5DN-SB-4.0-5.0MSD (SL-166-SA5DN-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	-	127	48.00-113.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-166-SA5DN-SB-4.0-5.0MS (SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	FLUORIDE	46	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)
DUP20-SA5DN-QC-070711MS (DUP20-SA5DN-QC-070711)	FLUORIDE	48	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-166-SA5DN -SB-4.0-5.0MS	HEXACHLOROBUTADIENE	-	-	10.00-155.00	42 (30.00)	HEXACHLOROBUTADIENE	J(all detects)
SL-166-SA5DN -SB-4.0-5.0MSD	METHYLENE CHLORIDE	173	175	61.00-141.00	-	METHYLENE CHLORIDE	
(SL-166-SA5DN -SB-4.0-5.0)	N-BUTYLBENZENE	-	-	30.00-146.00	35 (30.00)	N-BUTYLBENZENE	
	P-ISOPROPYLTOLUENE	-	-	29.00-152.00	31 (30.00)	P-ISOPROPYLTOLUENE	

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-166-SA5DN-SB-4.0-5.0DUP (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	SELENIUM	29	20.00	No Qual OK by Difference

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-166-SA5DN-SB-4.0-5.0DUP (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	HEXAVALENT CHROMIUM	108	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WCLCSQ261931 (EB21-SA5DN-SB-070711)	ACENAPHTHENE PYRENE	112 123	- -	74.00-109.00 69.00-118.00	- -	ACENAPHTHENE PYRENE	J (all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2WCLCSY261655 (EB21-SA5DN-SB-070711)	3,3'-DICHLOROBENZIDINE BENZOIC ACID	- -	46 -	49.00-111.00 10.00-69.00	44 (30.00) 43 (30.00)	3,3'-DICHLOROBENZIDINE BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1Y25Q211132A LCS1Y25Y211153A (EB21-SA5DN-SB-070711 TB-070711)	2-Chloro-1,1,1-trifluoroethane	73	73	77.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19308CQ220733 (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	ALUMINUM IRON MAGNESIUM POTASSIUM	153 140 132 124	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM POTASSIUM	No Qual, SRM within OC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LALCSQ261541 (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	2,4-DINITROPHENOL	35	-	37.00-120.00	-	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19608BQ221000 (DUP20-SA5DN-QC-070711 SL-164-SA5DN-SB-4.0-5.0 SL-164-SA5DN-SB-9.0-10.0 SL-166-SA5DN-SB-4.0-5.0 SL-166-SA5DN-SB-9.0-10.0 SL-167-SA5DN-SB-4.0-5.0 SL-167-SA5DN-SB-9.0-10.0 SL-168-SA5DN-SB-4.0-5.0 SL-168-SA5DN-SB-9.0-10.0 SL-169-SA5DN-SB-4.0-5.0 SL-169-SA5DN-SB-7.5-8.5)	TITANIUM	157	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Field Duplicate RPD Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
MOISTURE	13.2	14.2	7		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
FLUORIDE	3.6	3.3	9	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
ALUMINUM	33500	32200	4	50.00	No Qualifiers Applied
BORON	0.867	0.978	12	50.00	
CALCIUM	37100	25200	38	50.00	
IRON	34100	33700	1	50.00	
LITHIUM	31.7	30.4	4	50.00	
MAGNESIUM	8040	8130	1	50.00	
MANGANESE	419	435	4	50.00	
PHOSPHORUS	548	644	16	50.00	
POTASSIUM	4540	5010	10	50.00	
SODIUM	96.6	91.4	6	50.00	
STRONTIUM	58.6	49.4	17	50.00	
TIN	3.45	2.84	19	50.00	
TITANIUM	1060	941	12	50.00	
Zirconium	7.87	7.10	10	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
ANTIMONY	0.311	0.333	7	50.00	No Qualifiers Applied
ARSENIC	9.85	10.7	8	50.00	
BARIUM	167	181	8	50.00	
BERYLLIUM	1.06	1.11	5	50.00	
CADMIUM	0.451	0.564	22	50.00	
CHROMIUM	39.1	42.6	9	50.00	
COBALT	12.1	13.6	12	50.00	
COPPER	20.3	25.4	22	50.00	
LEAD	11.4	13.1	14	50.00	
MOLYBDENUM	0.616	0.751	20	50.00	
NICKEL	26.7	31.3	16	50.00	
SELENIUM	0.263	0.248	6	50.00	
SILVER	0.0582	0.0669	14	50.00	
THALLIUM	0.420	0.472	12	50.00	
VANADIUM	73.1	81.1	10	50.00	
ZINC	81.5	95.5	16	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
HEXAVALENT CHROMIUM	0.39	0.46	16	50.00	No Qualifiers Applied

Method: 8260B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
ACETONE	17	18	6	50.00	No Qualifiers Applied
METHYLENE CHLORIDE	33	34	3	50.00	
TOLUENE	0.1	0.10	0	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
PH	8.42	8.34	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB21-SA5DN-SB-070711	BORON	J	0.0085	0.0500	PQL	mg/L	J (all detects)
	CALCIUM	J	0.0768	0.200	PQL	mg/L	
	IRON	J	0.0221	0.200	PQL	mg/L	
	STRONTIUM	J	0.00055	0.0050	PQL	mg/L	

Method: 8260B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB21-SA5DN-SB-070711	METHYLENE CHLORIDE	J	3	5	PQL	ug/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB21-SA5DN-SB-070711	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.20	1.0	PQL	ug/L	J (all detects)
	Di-n-butylphthalate	J	0.093	1.0	PQL	ug/L	

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP20-SA5DN-QC-070711	BORON	J	0.978	5.71	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.4	114	PQL	mg/Kg	
	TIN	J	2.84	11.4	PQL	mg/Kg	
SL-164-SA5DN-SB-4.0-5.0	TIN	J	3.37	11.2	PQL	mg/Kg	J (all detects)
SL-164-SA5DN-SB-9.0-10.0	TIN	J	3.37	11.2	PQL	mg/Kg	J (all detects)
SL-166-SA5DN-SB-4.0-5.0	BORON	J	0.867	5.70	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.6	114	PQL	mg/Kg	
	TIN	J	3.45	11.4	PQL	mg/Kg	
SL-166-SA5DN-SB-9.0-10.0	SODIUM	J	94.8	114	PQL	mg/Kg	J (all detects)
	TIN	J	3.02	11.4	PQL	mg/Kg	
SL-167-SA5DN-SB-4.0-5.0	TIN	J	3.54	11.4	PQL	mg/Kg	J (all detects)
SL-167-SA5DN-SB-9.0-10.0	TIN	J	3.24	11.2	PQL	mg/Kg	J (all detects)
SL-168-SA5DN-SB-4.0-5.0	TIN	J	3.51	11.4	PQL	mg/Kg	J (all detects)
SL-168-SA5DN-SB-9.0-10.0	SODIUM	J	109	113	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	11.3	PQL	mg/Kg	
SL-169-SA5DN-SB-4.0-5.0	TIN	J	3.03	11.9	PQL	mg/Kg	J (all detects)
SL-169-SA5DN-SB-7.5-8.5	TIN	J	2.68	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.44	5.59	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP20-SA5DN-QC-070711	SELENIUM	J	0.248	0.462	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0669	0.115	PQL	mg/Kg	
SL-164-SA5DN-SB-4.0-5.0	SELENIUM	J	0.207	0.457	PQL	mg/Kg	J (all detects)
	SILVER	J	0.103	0.114	PQL	mg/Kg	
SL-164-SA5DN-SB-9.0-10.0	SELENIUM	J	0.140	0.447	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0810	0.112	PQL	mg/Kg	
SL-166-SA5DN-SB-4.0-5.0	SELENIUM	J	0.263	0.447	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0582	0.112	PQL	mg/Kg	
SL-166-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.196	0.232	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.464	PQL	mg/Kg	
	SILVER	J	0.0550	0.116	PQL	mg/Kg	
SL-167-SA5DN-SB-4.0-5.0	SELENIUM	J	0.226	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0350	0.115	PQL	mg/Kg	
SL-167-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.206	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.130	0.446	PQL	mg/Kg	
	SILVER	J	0.0555	0.111	PQL	mg/Kg	
SL-168-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.208	0.231	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.463	PQL	mg/Kg	
	SILVER	J	0.0584	0.116	PQL	mg/Kg	
SL-168-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.167	0.223	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0975	0.446	PQL	mg/Kg	
	SILVER	J	0.0634	0.111	PQL	mg/Kg	
SL-169-SA5DN-SB-4.0-5.0	SELENIUM	J	0.145	0.477	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0561	0.119	PQL	mg/Kg	
SL-169-SA5DN-SB-7.5-8.5	ANTIMONY	J	0.169	0.221	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0680	0.111	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP20-SA5DN-QC-070711	HEXAVALENT CHROMIUM	J	0.46	1.2	PQL	mg/Kg	J (all detects)
SL-164-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.62	1.2	PQL	mg/Kg	J (all detects)
SL-164-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)
SL-166-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.39	1.2	PQL	mg/Kg	J (all detects)
SL-166-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.40	1.2	PQL	mg/Kg	J (all detects)
SL-167-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.39	1.2	PQL	mg/Kg	J (all detects)
SL-167-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.41	1.2	PQL	mg/Kg	J (all detects)
SL-168-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.97	1.2	PQL	mg/Kg	J (all detects)
SL-168-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.40	1.1	PQL	mg/Kg	J (all detects)
SL-169-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)
SL-169-SA5DN-SB-7.5-8.5	HEXAVALENT CHROMIUM	J	0.53	1.1	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE195 **Laboratory: LL**

EDD Filename: DE195_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA5DN-SB-9.0-10.0	MERCURY	J	0.0080	0.106	PQL	mg/Kg	J (all detects)
SL-167-SA5DN-SB-4.0-5.0	MERCURY	J	0.0130	0.116	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP20-SA5DN-QC-070711	TOLUENE	J	0.10	4.5	PQL	ug/Kg	J (all detects)
SL-164-SA5DN-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.14 0.09	4.0 4.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-166-SA5DN-SB-4.0-5.0	TOLUENE	J	0.1	4.3	PQL	ug/Kg	J (all detects)
SL-167-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	3.6	4.3	PQL	ug/Kg	J (all detects)
SL-168-SA5DN-SB-4.0-5.0	METHYLENE CHLORIDE	J	3.7	4.2	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SL-164-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	J (all detects)
SL-166-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
SL-167-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
SL-168-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	J (all detects)
SL-168-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALATE CHRYSENE FLUORANTHENE PHENANTHRENE PYRENE	J J J J J J	0.88 17 0.76 0.87 0.92 0.88	1.9 21 1.9 1.9 1.9 1.9	PQL PQL PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-169-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	21	PQL	ug/Kg	J (all detects)

LDC #: 26277V4 **VALIDATION COMPLETENESS WORKSHEET** Date: 6/3/11
SDG #: DE195 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer: A

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No final.
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, As, Ba, Ca, Fe, Mg, K, Ti, V, Zn >4X.
VII.	Duplicate Sample Analysis	N A	Se <5X
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	As, Ba, Cu, Pb, Zn.
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates		
XV	Field Blanks	SW	EB=15

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

Validated Samples:

1	SL-164-SA5DN-SB-4.0-5.0	11	DUP20-SA5DN-AC-070711	21		31	
2	SL-164-SA5DN-SB-9.0-10.0	12	SL-166-SA5DN-SB-4.0-5.0MS	22		32	
3	SL-166-SA5DN-SB-4.0-5.0	13	SL-166-SA5DN-SB-4.0-5.0MSD	23		33	
4	SL-166-SA5DN-SB-9.0-10.0	14	SL-166-SA5DN-SB-4.0-5.0DUP	24		34	
5	SL-167-SA5DN-SB-4.0-5.0	15	EB21-SA5DN-SB-070711	25		35	
6	SL-167-SA5DN-SB-9.0-10.0	16		26		36	
7	SL-168-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-168-SA5DN-SB-9.0-10.0	18		28		38	
9	SL-169-SA5DN-SB-4.0-5.0	19		29		39	
10	SL-169-SA5DN-SB-7.5-8.5	20		30		40	

Notes:

LDC #: 26277V4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: L
2nd Reviewer: A

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

(Y) N N/A Were field blanks identified in this SDG?

(Y) N N/A Were target analytes detected in the field blanks?

Blank units: mg/L **Associated sample units:** mg/Kg

Sampling date: 7/7/11 Soil factor applied 100X

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

Analyte	Blank ID	Sample Identification											
	15	Action Level	3	11									
B	0.0085	4.25	0.87	0.98									
Ca	0.0768	38.4											
Fe	0.0221	11.05											
Sr	0.00055	0.275											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE195
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6338332BKG Matrix Spike Lab Sample ID: 6338333MS Matrix Spike Duplicate Lab Sample ID: 6338334MSD
% Solids for Sample: 86.8
Batch Id(s): P19308C, P19326A, P19311B, P19608B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		33472.3354		37146.2162		40010.0242		225.8968	228.1334	MG/KG	1626		2866		7			20	P
Antimony	121	0.3109		0.9931		0.8394		1.3688	1.3554	MG/KG	50	N	39	N	17		75 - 125	20	MS
Arsenic	75	9.8541		12.8918		10.9695		2.2813	2.2590	MG/KG	133		49		16			20	MS
Barium	137	166.5026		192.6587		163.3234		11.4067	11.2948	MG/KG	229		-28		16			20	MS
Beryllium	9	1.0610		2.0208		1.6030		0.9125	0.9036	MG/KG	105		60	N	23	*	75 - 125	20	MS
Boron		0.8669	B	231.4155		235.6310		225.8968	228.1334	MG/KG	102		103		2		84 - 115	20	P
Cadmium	111	0.4514		1.9136		1.5905		1.1407	1.1295	MG/KG	128	N	101		18		75 - 125	20	MS
Calcium		37119.8168		34383.7061		31631.1140		451.7936	456.2668	MG/KG	-606		-1203		8			20	P
Chromium	52	39.0587		53.7710		46.9639		11.4067	11.2948	MG/KG	129	N	70	N	14		75 - 125	20	MS
Cobalt	59	12.1136		81.2839		68.2660		57.0334	56.4742	MG/KG	121		99		17		75 - 125	20	MS
Copper	63	20.2787		36.4101		31.9192		11.4067	11.2948	MG/KG	141	N	103		13		75 - 125	20	MS
Iron		34136.9428		34496.3518		36303.2692		112.9484	114.0667	MG/KG	318		1899		5			20	P
Lead	208	11.3932		15.6089		13.6329		3.4220	3.3885	MG/KG	123		66	N	14		75 - 125	20	MS
Lithium		31.7162		147.0453		150.9547		112.9484	114.0667	MG/KG	102		105		3		82 - 114	20	P
Magnesium		8043.3271		8484.2268		8955.0611		225.8968	228.1334	MG/KG	195		400		5			20	P
Manganese		419.3548		473.1284		490.6693		56.4742	57.0334	MG/KG	95		125		4			20	P
Mercury		0.0081	U	0.1900		0.1844		0.1863	0.1866	MG/KG	102		99		3		65 - 135	20	CV
Molybdenum	98	0.6161		14.5367		12.6502		11.4067	11.2948	MG/KG	122		107		14		75 - 125	20	MS
Nickel	60	26.6878		43.3453		37.0923		11.4067	11.2948	MG/KG	146	N	92		16		75 - 125	20	MS
Phosphorus		548.4658		663.3223		657.0858		112.9484	114.0667	MG/KG	102		95		1			20	P
Potassium		4544.9092		6289.8437		6663.7872		1129.4841	1140.6671	MG/KG	154		186	N	6			20	P
Selenium	78	0.2631	B	2.6463		2.2861		2.2813	2.2590	MG/KG	104		90		15		75 - 125	20	MS
Silver	107	0.0582	B	14.4659		12.2029		11.4067	11.2948	MG/KG	126	N	108		17		75 - 125	20	MS
Sodium		96.6213	B	1221.0671		1235.0344		1129.4841	1140.6671	MG/KG	100		100		1		75 - 125	20	P
Strontium		58.6246		167.0801		169.8145		112.9484	114.0667	MG/KG	96		97		2		75 - 115	20	P
Thallium	203	0.4197		0.9988		0.8345		0.4563	0.4518	MG/KG	127	N	92		18		75 - 125	20	MS
Tin		3.4460	B	414.8550		421.2871		451.7936	456.2668	MG/KG	91		92		2		80 - 110	20	P
Titanium		1062.8059		1560.0499		1620.7709		111.8518	111.8518	MG/KG	445		499		4			20	P
Vanadium	51	73.1287		87.5804		81.0970		11.4067	11.2948	MG/KG	127		71		8			20	MS
Zinc	66	81.5176		101.2228		85.3890		11.4067	11.2948	MG/KG	173		34		17			20	MS
Zirconium		7.8683		109.7633		112.4150		112.9484	114.0667	MG/KG	90		92		2		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE195
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6338332BKG Serial Dilution Lab Sample ID: 6338332L
Batch ID(s): P19308C, P19326A, P19608B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminium		293445.2700		300538.4000		2		P
Antimony	121	1.3900		1.8500	U	100		MS
Arsenic	75	44.0500		37.3700		15	E	MS
Barium	137	744.3000		630.0000		15	E	MS
Beryllium	9	4.7430		4.0845		14		MS
Boron		7.6000	B	18.0000	U	100		P
Cadmium	111	2.0180		1.2890	B	36		MS
Calcium		325422.0100		333421.3000		2		P
Chromium	52	174.6000		179.2000		3		MS
Cobalt	59	54.1500		51.5000		5		MS
Copper	63	90.6500		80.5500		11	E	MS
Iron		59854.3500		61191.0000		2		P
Lead	208	50.9300		43.1400		15	E	MS
Lithium		278.0500		280.8500		1		P
Magnesium		70514.2400		72202.5500		2		P
Manganese		3676.4000		3851.3000		5		P
Molybdenum	98	2.7540		2.1280	B	23		MS
Nickel	60	119.3000		107.4500		10		MS
Phosphorus		4808.2900		4681.8000		3		P
Potassium		39844.3100		40197.5500		1		P
Selenium	78	1.1760	B	1.4500	U	100		MS
Silver	107	0.2602	B	0.3550	U	100		MS
Sodium		847.0600	B	753.0000	B	11		P
Strontium		513.9500		524.5000		2		P
Thallium	203	1.8760		1.5180	B	19		MS
Tin		30.2100	B	30.7500	B	2		P
Titanium		9501.9100		9752.8000		3		P
Vanadium	51	326.9000		331.1500		1		MS
Zinc	66	364.4000		324.9000		11	E	MS
Zirconium		68.9800		89.3500	B	30		P

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

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

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE196

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	TB-070811	6339515	TB	5030B	8260B	III
08-Jul-2011	TB-070811	6339515	TB	5030B	8260B SIM	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3050B	6010B	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3060A	7199	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3550B	8082	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3550B	8270C	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	3550B	8270C SIM	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	5035	8260B	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	5035	8260B SIM	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	METHOD	300.0	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	METHOD	314.0	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0	6339505	N	METHOD	7471A	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0DU	P339505D221225A	DUP	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0DU	P339505D221225B	DUP	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0DU	P339505D221225D	DUP	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0DU	P339505D221320C	DUP	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0DU	P339505D270148A	DUP	METHOD	300.0	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R221228A	MS	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R221228B	MS	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R221228C	MS	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R221228D	MS	3050B	6020	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R261732	MS	3550B	8270C	III
08-Jul-2011	SL-155-SA5DN-SB-4.0-5.0MS	P339505R270203A	MS	METHOD	300.0	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3050B	6010B	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3050B	6020	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3060A	7199	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3550B	8082	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3550B	8270C	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	3550B	8270C SIM	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	METHOD	300.0	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	METHOD	314.0	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0	6339506	N	METHOD	7471A	III
08-Jul-2011	SL-155-SA5DN-SB-9.0-10.0M	P339506R262135	MS	3550B	8270C SIM	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3050B	6010B	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3050B	6020	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3060A	7199	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3550B	8082	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3550B	8270C	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	3550B	8270C SIM	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	5035	8260B	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	5035	8260B SIM	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	METHOD	300.0	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	METHOD	314.0	III
08-Jul-2011	SL-158-SA5DN-SB-4.0-5.0	6339511	N	METHOD	7471A	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	3510C	8015B	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	3510C	8015M	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	3520C	1625C	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	5030B	8015M	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	8330	8330A	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	Gen Prep	300.0	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	Gen Prep	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	Gen Prep	8015M	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	METHOD	8315A	III
08-Jul-2011	EB22-SA5DN-SB-070811	6339516	EB	METHOD	9012B	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3050B	6010B	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3050B	6020	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3060A	7199	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3550B	8082	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3550B	8270C	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	3550B	8270C SIM	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	METHOD	300.0	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	METHOD	314.0	III
08-Jul-2011	SL-158-SA5DN-SB-9.0-10.0	6339512	N	METHOD	7471A	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3050B	6010B	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3050B	6020	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3060A	7199	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3550B	8082	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3550B	8270C	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	3550B	8270C SIM	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	5035	8260B	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	5035	8260B SIM	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	METHOD	300.0	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	METHOD	314.0	III
08-Jul-2011	SL-157-SA5DN-SB-4.0-5.0	6339509	N	METHOD	7471A	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3050B	6010B	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3050B	6020	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3550B	8082	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3550B	8270C	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	3550B	8270C SIM	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	METHOD	300.0	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	METHOD	314.0	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0	6339510	N	METHOD	7471A	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0D	P339510D221903	DUP	METHOD	7471A	III
08-Jul-2011	SL-157-SA5DN-SB-9.0-10.0M	P339510R221904	MS	METHOD	7471A	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3050B	6010B	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3050B	6020	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3060A	7199	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3550B	8082	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3550B	8270C	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	3550B	8270C SIM	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	5035	8260B	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	5035	8260B SIM	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	METHOD	300.0	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	METHOD	314.0	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0	6339507	N	METHOD	7471A	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0DU	P339507D271520A	DUP	3060A	7199	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0MS	P339507R241754A	MS	3550B	8082	III
08-Jul-2011	SL-156-SA5DN-SB-4.0-5.0MS	P339507R271446A	MS	3060A	7199	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3050B	6010B	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3050B	6020	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3060A	7199	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3550B	8082	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3550B	8270C	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	3550B	8270C SIM	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	METHOD	300.0	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	METHOD	314.0	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0	6339508	N	METHOD	7471A	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0D	P339508D220511	DUP	3050B	6010B	III
08-Jul-2011	SL-156-SA5DN-SB-9.0-10.0M	P339508R220516	MS	3050B	6010B	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3050B	6010B	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3050B	6020	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3060A	7199	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3550B	8082	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3550B	8270C	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	3550B	8270C SIM	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	5035	8260B	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	5035	8260B SIM	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	METHOD	300.0	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	METHOD	314.0	III
08-Jul-2011	SL-159-SA5DN-SB-4.0-5.0	6339513	N	METHOD	7471A	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3050B	6010B	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3050B	6020	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3060A	7199	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3550B	8082	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3550B	8270C	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	3550B	8270C SIM	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	METHOD	300.0	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0	6339514	N	METHOD	7471A	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0D	P339514D270348B	DUP	METHOD	314.0	III
08-Jul-2011	SL-159-SA5DN-SB-9.0-10.0M	P339514R270411B	MS	METHOD	314.0	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.92	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	9.1		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.60	J	0.412	MDL	5.73	PQL	mg/Kg	J	Z
MANGANESE	374		0.0412	MDL	0.573	PQL	mg/Kg	J	E
PHOSPHORUS	363		0.401	MDL	11.5	PQL	mg/Kg	J	Q
TIN	2.78	J	0.367	MDL	11.5	PQL	mg/Kg	U	B

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	410		0.0408	MDL	0.567	PQL	mg/Kg	J	E
PHOSPHORUS	485		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.82	J	0.363	MDL	11.3	PQL	mg/Kg	U	B

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.47	J	0.395	MDL	5.49	PQL	mg/Kg	J	Z
MANGANESE	391		0.0395	MDL	0.549	PQL	mg/Kg	J	E
PHOSPHORUS	377		0.384	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.45	J	0.351	MDL	11.0	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.28	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
MANGANESE	261		0.0398	MDL	0.553	PQL	mg/Kg	J	E
PHOSPHORUS	247		0.387	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.88	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	5.07	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.53	J	0.402	MDL	5.58	PQL	mg/Kg	J	Z
MANGANESE	378		0.0402	MDL	0.558	PQL	mg/Kg	J	E
PHOSPHORUS	466		0.391	MDL	11.2	PQL	mg/Kg	J	Q
SODIUM	104	J	6.64	MDL	112	PQL	mg/Kg	J	Z
TIN	2.84	J	0.357	MDL	11.2	PQL	mg/Kg	U	B

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.75	J	0.419	MDL	5.82	PQL	mg/Kg	J	Z
MANGANESE	307		0.0419	MDL	0.582	PQL	mg/Kg	J	E
PHOSPHORUS	279		0.408	MDL	11.6	PQL	mg/Kg	J	Q
TIN	2.96	J	0.373	MDL	11.6	PQL	mg/Kg	U	B

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.88	J	0.392	MDL	5.45	PQL	mg/Kg	J	Z
MANGANESE	360		0.0392	MDL	0.545	PQL	mg/Kg	J	E
PHOSPHORUS	407		0.381	MDL	10.9	PQL	mg/Kg	J	Q
SODIUM	98.1	J	6.48	MDL	109	PQL	mg/Kg	J	Z
TIN	2.57	J	0.349	MDL	10.9	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.88	J	0.403	MDL	5.60	PQL	mg/Kg	J	Z
MANGANESE	240		0.0403	MDL	0.560	PQL	mg/Kg	J	E
PHOSPHORUS	202		0.392	MDL	11.2	PQL	mg/Kg	J	Q
TIN	3.09	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	5.14	J	0.515	MDL	5.60	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.35	J	0.399	MDL	5.55	PQL	mg/Kg	J	Z
MANGANESE	373		0.0399	MDL	0.555	PQL	mg/Kg	J	E
PHOSPHORUS	407		0.388	MDL	11.1	PQL	mg/Kg	J	Q
SODIUM	105	J	6.60	MDL	111	PQL	mg/Kg	J	Z
TIN	2.50	J	0.355	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.69	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
MANGANESE	325		0.0398	MDL	0.553	PQL	mg/Kg	J	E
PHOSPHORUS	206		0.387	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.74	J	0.354	MDL	11.1	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.126	J	0.0645	MDL	0.445	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.118	MDL	0.445	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0823	MDL	0.222	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.67		0.0890	MDL	0.445	PQL	mg/Kg	J	Q
CHROMIUM	36.0		0.133	MDL	0.445	PQL	mg/Kg	J	Q, A
COBALT	10.5		0.0222	MDL	0.111	PQL	mg/Kg	J	A
COPPER	15.3		0.0890	MDL	0.445	PQL	mg/Kg	J	A
LEAD	8.00		0.0113	MDL	0.222	PQL	mg/Kg	J	A
NICKEL	26.5		0.111	MDL	0.445	PQL	mg/Kg	J	A
SILVER	0.0460	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	59.4		0.0245	MDL	0.111	PQL	mg/Kg	J	A
ZINC	71.8		0.623	MDL	3.34	PQL	mg/Kg	J	A

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 8:50:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.124	MDL	0.467	PQL	mg/Kg	J	A

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0864	MDL	0.234	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.95		0.0934	MDL	0.467	PQL	mg/Kg	J	Q
CHROMIUM	33.1		0.140	MDL	0.467	PQL	mg/Kg	J	Q, A
COBALT	9.48		0.0234	MDL	0.117	PQL	mg/Kg	J	A
COPPER	15.3		0.0934	MDL	0.467	PQL	mg/Kg	J	A
LEAD	7.91		0.0119	MDL	0.234	PQL	mg/Kg	J	A
NICKEL	23.2		0.117	MDL	0.467	PQL	mg/Kg	J	A
SILVER	0.0565	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z
VANADIUM	57.3		0.0257	MDL	0.117	PQL	mg/Kg	J	A
ZINC	74.5		0.654	MDL	3.50	PQL	mg/Kg	J	A

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0655	MDL	0.452	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-156-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 1:40:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.120	MDL	0.452	PQL	mg/Kg	J	A

Sample ID: SL-156-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 1:40:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.196	J	0.0836	MDL	0.226	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.13		0.0904	MDL	0.452	PQL	mg/Kg	J	Q
CHROMIUM	40.4		0.136	MDL	0.452	PQL	mg/Kg	J	Q, A
COBALT	11.0		0.0226	MDL	0.113	PQL	mg/Kg	J	A
COPPER	13.7		0.0904	MDL	0.452	PQL	mg/Kg	J	A
LEAD	8.23		0.0115	MDL	0.226	PQL	mg/Kg	J	A
NICKEL	35.9		0.113	MDL	0.452	PQL	mg/Kg	J	A
SILVER	0.0407	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	58.3		0.0248	MDL	0.113	PQL	mg/Kg	J	A
ZINC	69.6		0.633	MDL	3.39	PQL	mg/Kg	J	A

Sample ID: SL-156-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 1:45:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0851	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 1:45:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	110		0.118	MDL	0.447	PQL	mg/Kg	J	A

Sample ID: SL-156-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 1:45:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.264		0.0826	MDL	0.223	PQL	mg/Kg	J	Q, E
ARSENIC	7.46		0.0893	MDL	0.447	PQL	mg/Kg	J	Q
CHROMIUM	36.8		0.134	MDL	0.447	PQL	mg/Kg	J	Q, A
COBALT	9.54		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	15.3		0.0893	MDL	0.447	PQL	mg/Kg	J	A
LEAD	8.54		0.0114	MDL	0.223	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	28.1		0.112	MDL	0.447	PQL	mg/Kg	J	A
SILVER	0.0755	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	52.9		0.0246	MDL	0.112	PQL	mg/Kg	J	A
ZINC	64.6		0.625	MDL	3.35	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0641	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.117	MDL	0.442	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.202	J	0.0818	MDL	0.221	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.22		0.0885	MDL	0.442	PQL	mg/Kg	J	Q
CHROMIUM	41.2		0.133	MDL	0.442	PQL	mg/Kg	J	Q, A
COBALT	10.9		0.0221	MDL	0.111	PQL	mg/Kg	J	A
COPPER	14.4		0.0885	MDL	0.442	PQL	mg/Kg	J	A
LEAD	7.81		0.0113	MDL	0.221	PQL	mg/Kg	J	A
NICKEL	34.7		0.111	MDL	0.442	PQL	mg/Kg	J	A
SILVER	0.0373	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	60.1		0.0243	MDL	0.111	PQL	mg/Kg	J	A
ZINC	68.5		0.619	MDL	3.32	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 11:10:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0961	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-157-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 11:10:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	182		0.121	MDL	0.457	PQL	mg/Kg	J	A

Sample ID: SL-157-SA5DN-SB-9.0-10.0 ***Collected:*** 7/8/2011 11:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.289		0.0845	MDL	0.228	PQL	mg/Kg	J	Q, E
ARSENIC	13.2		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
CADMIUM	0.0859	J	0.0503	MDL	0.114	PQL	mg/Kg	J	Z
CHROMIUM	53.7		0.137	MDL	0.457	PQL	mg/Kg	J	Q, A
COBALT	16.5		0.0228	MDL	0.114	PQL	mg/Kg	J	A
COPPER	28.0		0.0914	MDL	0.457	PQL	mg/Kg	J	A
LEAD	14.8		0.0117	MDL	0.228	PQL	mg/Kg	J	A
NICKEL	45.3		0.114	MDL	0.457	PQL	mg/Kg	J	A
SILVER	0.0886	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	85.8		0.0251	MDL	0.114	PQL	mg/Kg	J	A
ZINC	108		0.640	MDL	3.43	PQL	mg/Kg	J	A

Sample ID: SL-158-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 10:00:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.153	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 10:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	131		0.116	MDL	0.436	PQL	mg/Kg	J	A

Sample ID: SL-158-SA5DN-SB-4.0-5.0 ***Collected:*** 7/8/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.222		0.0806	MDL	0.218	PQL	mg/Kg	J	Q, E
ARSENIC	7.61		0.0872	MDL	0.436	PQL	mg/Kg	J	Q
CADMIUM	0.102	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z
CHROMIUM	47.7		0.131	MDL	0.436	PQL	mg/Kg	J	Q, A
COBALT	13.5		0.0218	MDL	0.109	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	16.3		0.0872	MDL	0.436	PQL	mg/Kg	J	A
LEAD	9.47		0.0111	MDL	0.218	PQL	mg/Kg	J	A
NICKEL	39.8		0.109	MDL	0.436	PQL	mg/Kg	J	A
SILVER	0.0328	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	69.3		0.0240	MDL	0.109	PQL	mg/Kg	J	A
ZINC	85.6		0.610	MDL	3.27	PQL	mg/Kg	J	A

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.162	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.121	MDL	0.457	PQL	mg/Kg	J	A

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.106	J	0.0845	MDL	0.228	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.59		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
CHROMIUM	38.1		0.137	MDL	0.457	PQL	mg/Kg	J	Q, A
COBALT	12.0		0.0228	MDL	0.114	PQL	mg/Kg	J	A
COPPER	11.9		0.0914	MDL	0.457	PQL	mg/Kg	J	A
LEAD	8.99		0.0116	MDL	0.228	PQL	mg/Kg	J	A
NICKEL	32.6		0.114	MDL	0.457	PQL	mg/Kg	J	A
SILVER	0.0627	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	57.2		0.0251	MDL	0.114	PQL	mg/Kg	J	A
ZINC	59.5		0.640	MDL	3.43	PQL	mg/Kg	J	A

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.134	J	0.0662	MDL	0.457	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.121	MDL	0.457	PQL	mg/Kg	J	A

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.215	J	0.0845	MDL	0.228	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.64		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
CHROMIUM	39.1		0.137	MDL	0.457	PQL	mg/Kg	J	Q, A
COBALT	12.0		0.0228	MDL	0.114	PQL	mg/Kg	J	A
COPPER	14.4		0.0914	MDL	0.457	PQL	mg/Kg	J	A
LEAD	8.39		0.0116	MDL	0.228	PQL	mg/Kg	J	A
NICKEL	25.3		0.114	MDL	0.457	PQL	mg/Kg	J	A
SILVER	0.0253	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	69.0		0.0251	MDL	0.114	PQL	mg/Kg	J	A
ZINC	71.2		0.640	MDL	3.43	PQL	mg/Kg	J	A

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0919	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.118	MDL	0.447	PQL	mg/Kg	J	A

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206	J	0.0827	MDL	0.223	PQL	mg/Kg	J	Z, Q, E
ARSENIC	6.84		0.0894	MDL	0.447	PQL	mg/Kg	J	Q
CADMIUM	0.0539	J	0.0492	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	36.6		0.134	MDL	0.447	PQL	mg/Kg	J	Q, A
COBALT	11.1		0.0223	MDL	0.112	PQL	mg/Kg	J	A
COPPER	13.1		0.0894	MDL	0.447	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	8.23		0.0114	MDL	0.223	PQL	mg/Kg	J	A
NICKEL	29.5		0.112	MDL	0.447	PQL	mg/Kg	J	A
SILVER	0.0399	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	58.4		0.0246	MDL	0.112	PQL	mg/Kg	J	A
ZINC	63.1		0.626	MDL	3.35	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.74	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.34	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.75	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.54	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.67	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.65	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0118	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0117	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0110	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

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

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	380	U	380	MDL	1100	PQL	ug/Kg	UJ	Q

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

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 8:50:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.1	J	7.1	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.7	J	6.8	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 11:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.3	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	8.8	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Di-n-octylphthalate	9.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory:** LL

EDD Filename: DE196_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: VOA

Method: 8260B **Matrix:** AQ

Sample ID: TB-070811 *Collected:* 7/8/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 0.82

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	31		6.3	MDL	7.5	PQL	ug/Kg	U	B
CHLOROFORM	0.26	J	0.11	MDL	3.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	82		0.23	MDL	3.8	PQL	ug/Kg	J	L
TOLUENE	0.13	J	0.08	MDL	3.8	PQL	ug/Kg	U	B

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES *Dilution:* 0.89

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	29		6.9	MDL	8.2	PQL	ug/Kg	U	B
CHLOROFORM	0.24	J	0.12	MDL	4.1	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	64		0.25	MDL	4.1	PQL	ug/Kg	J	L
TOLUENE	0.12	J	0.08	MDL	4.1	PQL	ug/Kg	U	B

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES *Dilution:* 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	29		7.1	MDL	8.5	PQL	ug/Kg	U	B
CHLOROFORM	0.29	J	0.13	MDL	4.3	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	26		0.26	MDL	4.3	PQL	ug/Kg	J	L
TOLUENE	0.16	J	0.09	MDL	4.3	PQL	ug/Kg	U	B

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	36		6.6	MDL	7.9	PQL	ug/Kg	U	B
CHLOROFORM	0.26	J	0.12	MDL	3.9	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	130		0.24	MDL	3.9	PQL	ug/Kg	J	L

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES *Dilution:* 0.88

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TOLUENE	0.14	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-159-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 0.97

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	30		7.5	MDL	8.9	PQL	ug/Kg	U	B
CHLOROFORM	0.28	J	0.13	MDL	4.5	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	27		0.27	MDL	4.5	PQL	ug/Kg	J	L
TOLUENE	0.17	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE196

Method Blank Outlier Report

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19308AB220451	7/22/2011 4:51:00 AM	CALCIUM IRON PHOSPHORUS TIN	5.50 mg/Kg 3.57 mg/Kg 1.18 mg/Kg 1.64 mg/Kg	SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-155-SA5DN-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	TIN	2.84 mg/Kg	2.84U mg/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19926CB221213A	7/20/2011 12:13:00 PM	LEAD	0.0138 mg/Kg	SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B211206A	7/14/2011 12:06:00 PM	ACETONE CHLOROFORM METHYLENE CHLORIDE TOLUENE	9.3 ug/Kg 0.14 ug/Kg 2.1 ug/Kg 0.11 ug/Kg	SL-155-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE196 Laboratory: LL

EDD Filename: DE196_v1 eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-155-SA5DN-SB-4.0-5.0(RES)	ACETONE	31 ug/Kg	31U ug/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	CHLOROFORM	0.26 ug/Kg	3.8U ug/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.13 ug/Kg	3.8U ug/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	ACETONE	29 ug/Kg	29U ug/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	CHLOROFORM	0.24 ug/Kg	4.1U ug/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.12 ug/Kg	4.1U ug/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	ACETONE	29 ug/Kg	29U ug/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	CHLOROFORM	0.29 ug/Kg	4.3U ug/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.16 ug/Kg	4.3U ug/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	ACETONE	36 ug/Kg	36U ug/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	CHLOROFORM	0.26 ug/Kg	3.9U ug/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.14 ug/Kg	3.9U ug/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	ACETONE	30 ug/Kg	30U ug/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	CHLOROFORM	0.28 ug/Kg	4.5U ug/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.17 ug/Kg	4.5U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-156-SA5DN-SB-9.0-10.0MS SL-156-SA5DN-SB-9.0-10.0MSD (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	ALUMINUM MAGNESIUM TITANIUM	2651 126 -	2522 - 128	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM MAGNESIUM TITANIUM	No Qual, >4x
SL-156-SA5DN-SB-9.0-10.0MS SL-156-SA5DN-SB-9.0-10.0MSD (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	IRON MANGANESE	-1228 -38	-1824 -58	75.00-125.00 75.00-125.00	- -	IRON MANGANESE	No Qual, >4x
SL-156-SA5DN-SB-9.0-10.0MS (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	PHOSPHORUS	68	-	75.00-125.00	-	PHOSPHORUS	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA5DN-SB-4.0-5.0MSD (SL-155-SA5DN-SB-4.0-5.0)	2,4-DINITROPHENOL	-	18	20.00-143.00	-	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA5DN-SB-9.0-10.0MS SL-155-SA5DN-SB-9.0-10.0MSD (SL-155-SA5DN-SB-9.0-10.0)	N-NITROSODIMETHYLAMINE	123	127	48.00-113.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA5DN-SB-4.0-5.0MS SL-155-SA5DN-SB-4.0-5.0MSD (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	ANTIMONY ARSENIC CHROMIUM VANADIUM ZINC	65 - - - 136	50 63 74 60 68	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	22 (20.00) - - - -	ANTIMONY ARSENIC CHROMIUM VANADIUM ZINC	J(all detects) UJ(all non-detects) V, Zn, No Qual, >4x
SL-155-SA5DN-SB-4.0-5.0MS SL-155-SA5DN-SB-4.0-5.0MSD (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	BARIUM	185	43	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA5DN-SB-4.0-5.0MS (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	FLUORIDE	43	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-156-SA5DN-SB-9.0-10.0DUP	BORON	23	20.00	
(SL-155-SA5DN-SB-4.0-5.0	MANGANESE	35	20.00	
SL-155-SA5DN-SB-9.0-10.0				J (all detects) UJ (all non-detects)
SL-156-SA5DN-SB-4.0-5.0				
SL-156-SA5DN-SB-9.0-10.0				
SL-157-SA5DN-SB-4.0-5.0				
SL-157-SA5DN-SB-9.0-10.0				
SL-158-SA5DN-SB-4.0-5.0				B, No Qual, OK by Difference
SL-158-SA5DN-SB-9.0-10.0				
SL-159-SA5DN-SB-4.0-5.0				
SL-159-SA5DN-SB-9.0-10.0)				

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-155-SA5DN-SB-4.0-5.0DUP	MOLYBDENUM	38	20.00	
(SL-155-SA5DN-SB-4.0-5.0				
SL-155-SA5DN-SB-9.0-10.0				
SL-156-SA5DN-SB-4.0-5.0				
SL-156-SA5DN-SB-9.0-10.0				
SL-157-SA5DN-SB-4.0-5.0				No Qual, OK by Difference
SL-157-SA5DN-SB-9.0-10.0				
SL-158-SA5DN-SB-4.0-5.0				
SL-158-SA5DN-SB-9.0-10.0				
SL-159-SA5DN-SB-4.0-5.0				
SL-159-SA5DN-SB-9.0-10.0)				

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-156-SA5DN-SB-4.0-5.0DUP	HEXAVALENT CHROMIUM	35	20.00	
(SL-155-SA5DN-SB-4.0-5.0				
SL-155-SA5DN-SB-9.0-10.0				
SL-156-SA5DN-SB-4.0-5.0				
SL-156-SA5DN-SB-9.0-10.0				
SL-157-SA5DN-SB-4.0-5.0				No Qual, OK by Difference
SL-157-SA5DN-SB-9.0-10.0				
SL-158-SA5DN-SB-4.0-5.0				
SL-158-SA5DN-SB-9.0-10.0				
SL-159-SA5DN-SB-4.0-5.0				
SL-159-SA5DN-SB-9.0-10.0)				

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE196 Laboratory: LL

EDD Filename: DE196_v1 eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11934AQ240005A P11934AY240047A (EB22-SA5DN-SB-070811)	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	110 110 129	110 110 129	76.00-109.00 69.00-107.00 80.00-120.00	- - -	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	J (all detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1Y25Q211132A LCS1Y25Y211153A (TB-070811)	2-Chloro-1,1,1-trifluoroethane	73	73	77.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19308AQ220455 (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM TITANIUM	142 123 122 172	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM TITANIUM	No Qual, SRM within QC Limits

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7LDLCSQ261927 (SL-155-SA5DN-SB-4.0-5.0 SL-155-SA5DN-SB-9.0-10.0 SL-156-SA5DN-SB-4.0-5.0 SL-156-SA5DN-SB-9.0-10.0 SL-157-SA5DN-SB-4.0-5.0 SL-157-SA5DN-SB-9.0-10.0 SL-158-SA5DN-SB-4.0-5.0 SL-158-SA5DN-SB-9.0-10.0 SL-159-SA5DN-SB-4.0-5.0 SL-159-SA5DN-SB-9.0-10.0)	N-NITROSODIMETHYLAMINE	128	-	55.00-118.00	-	N-NITROSODIMETHYLAMINE	J(all detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
LCSB16Q211423A LCSB16Y211251A (SL-155-SA5DN -SB-4.0-5.0 SL -156-SA5DN -SB-4.0-5.0 SL -157-SA5DN -SB-4.0-5.0 SL -158-SA5DN -SB-4.0-5.0 SL -159-SA5DN -SB-4.0-5.0)	METHYLENE CHLORIDE	129	127	76.00-124.00	-	METHYLENE CHLORIDE	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-4.0-5.0	BORON	J	5.60	5.73	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	11.5	PQL	mg/Kg	
SL-155-SA5DN-SB-9.0-10.0	TIN	J	2.82	11.3	PQL	mg/Kg	J (all detects)
SL-156-SA5DN-SB-4.0-5.0	BORON	J	5.47	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	11.0	PQL	mg/Kg	
SL-156-SA5DN-SB-9.0-10.0	BORON	J	3.28	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	11.1	PQL	mg/Kg	
	Zirconium	J	5.07	5.53	PQL	mg/Kg	
SL-157-SA5DN-SB-4.0-5.0	BORON	J	5.53	5.58	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	112	PQL	mg/Kg	
	TIN	J	2.84	11.2	PQL	mg/Kg	
SL-157-SA5DN-SB-9.0-10.0	BORON	J	4.75	5.82	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	11.6	PQL	mg/Kg	
SL-158-SA5DN-SB-4.0-5.0	BORON	J	4.88	5.45	PQL	mg/Kg	J (all detects)
	SODIUM	J	98.1	109	PQL	mg/Kg	
	TIN	J	2.57	10.9	PQL	mg/Kg	
SL-158-SA5DN-SB-9.0-10.0	BORON	J	3.88	5.60	PQL	mg/Kg	J (all detects)
	TIN	J	3.09	11.2	PQL	mg/Kg	
	Zirconium	J	5.14	5.60	PQL	mg/Kg	
SL-159-SA5DN-SB-4.0-5.0	BORON	J	5.35	5.55	PQL	mg/Kg	J (all detects)
	SODIUM	J	105	111	PQL	mg/Kg	
	TIN	J	2.50	11.1	PQL	mg/Kg	
SL-159-SA5DN-SB-9.0-10.0	BORON	J	4.69	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	2.74	11.1	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.170	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.126	0.445	PQL	mg/Kg	
	SILVER	J	0.0460	0.111	PQL	mg/Kg	
SL-155-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.140	0.234	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0565	0.117	PQL	mg/Kg	
SL-156-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.196	0.226	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.452	PQL	mg/Kg	
	SILVER	J	0.0407	0.113	PQL	mg/Kg	
SL-156-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0851	0.447	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0755	0.112	PQL	mg/Kg	
SL-157-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.202	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.442	PQL	mg/Kg	
	SILVER	J	0.0373	0.111	PQL	mg/Kg	
SL-157-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0859	0.114	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0961	0.457	PQL	mg/Kg	
	SILVER	J	0.0886	0.114	PQL	mg/Kg	
SL-158-SA5DN-SB-4.0-5.0	CADMIUM	J	0.102	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.153	0.436	PQL	mg/Kg	
	SILVER	J	0.0328	0.109	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-158-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.106	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.162	0.457	PQL	mg/Kg	
	SILVER	J	0.0627	0.114	PQL	mg/Kg	
SL-159-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.215	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.134	0.457	PQL	mg/Kg	
	SILVER	J	0.0253	0.114	PQL	mg/Kg	
SL-159-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.206	0.223	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0539	0.112	PQL	mg/Kg	
	SELENIUM	J	0.0919	0.447	PQL	mg/Kg	
	SILVER	J	0.0399	0.112	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.74	1.1	PQL	mg/Kg	J (all detects)
SL-155-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.34	1.2	PQL	mg/Kg	J (all detects)
SL-156-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.67	1.2	PQL	mg/Kg	J (all detects)
SL-156-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.75	1.1	PQL	mg/Kg	J (all detects)
SL-157-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.54	1.1	PQL	mg/Kg	J (all detects)
SL-157-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.67	1.2	PQL	mg/Kg	J (all detects)
SL-158-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-158-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.66	1.2	PQL	mg/Kg	J (all detects)
SL-159-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)
SL-159-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.50	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA5DN-SB-9.0-10.0	MERCURY	J	0.0118	0.108	PQL	mg/Kg	J (all detects)
SL-157-SA5DN-SB-9.0-10.0	MERCURY	J	0.0117	0.110	PQL	mg/Kg	J (all detects)
SL-158-SA5DN-SB-9.0-10.0	MERCURY	J	0.0110	0.108	PQL	mg/Kg	J (all detects)

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-4.0-5.0	CHLOROFORM	J	0.26	3.8	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.13	3.8	PQL	ug/Kg	
SL-156-SA5DN-SB-4.0-5.0	CHLOROFORM	J	0.24	4.1	PQL	ug/Kg	J (all detects)
	TOLUENE	J	0.12	4.1	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE196 **Laboratory: LL**

EDD Filename: DE196_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA5DN-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.29 0.16	4.3 4.3	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-158-SA5DN-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.26 0.14	3.9 3.9	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-159-SA5DN-SB-4.0-5.0	CHLOROFORM TOLUENE	J J	0.28 0.17	4.5 4.5	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	21	PQL	ug/Kg	J (all detects)
SL-155-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.1	21	PQL	ug/Kg	J (all detects)
SL-156-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	21	PQL	ug/Kg	J (all detects)
SL-156-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.7	21	PQL	ug/Kg	J (all detects)
SL-157-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	20	PQL	ug/Kg	J (all detects)
SL-157-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	21	PQL	ug/Kg	J (all detects)
SL-158-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.9	20	PQL	ug/Kg	J (all detects)
SL-158-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Butylbenzylphthalate	J J	17 7.3	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-159-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	8.9 8.8	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-159-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	16 9.2	21 21	PQL PQL	ug/Kg ug/Kg	J (all detects)

LDC #: 26277W4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10/3/11
SDG #: DE196 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer:

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No qual.
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, B, Fe, Mg, Mn, Ti, Ba, V, Zn >4X
VII.	Duplicate Sample Analysis	SW	Mo <5X, Mn J/UJ
VIII.	Laboratory Control Samples (LCS)	NA	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Cu, Pb, Ni, V, Zn
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

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

Validated Samples:

1	SL-155-SA5DN-SB-4.0-5.0	11	#6 MS (4x)	21		31	
2	SL-155-SA5DN-SB-9.0-10.0	12	↓ MSD ↓	22		32	
3	SL-156-SA5DN-SB-4.0-5.0	13	Dup	23		33	
4	SL-156-SA5DN-SB-9.0-10.0	14	#1 MS (TP/MS)	24		34	
5	SL-157-SA5DN-SB-4.0-5.0	15	MSD ↓	25		35	
6	SL-157-SA5DN-SB-9.0-10.0	16	Dup ↓	26		36	
7	SL-158-SA5DN-SB-4.0-5.0	17	#4 MS (TP)	27		37	
8	SL-158-SA5DN-SB-9.0-10.0	18	↓ MSD ↓	28		38	
9	SL-159-SA5DN-SB-4.0-5.0	19	↓ Dup ↓	29		39	
10	SL-159-SA5DN-SB-9.0-10.0	20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE196
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6339508BKG Matrix Spike Lab Sample ID: 6339508MS Matrix Spike Duplicate Lab Sample ID: 6339508MSD
% Solids for Sample: 87.8
Batch Id(s): P19308A

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
Aluminum		22987.0889		28850.6391		28731.2198		221.1558	227.7904	MG/KG	2651		2522		0			20	P
Boron		3.2775	B	215.5506		220.7699		221.1558	227.7904	MG/KG	96		95		2		84 - 115	20	P
Calcium		2768.7452		3263.7669		3314.6378		442.3115	455.5809	MG/KG	112		120		2			20	P
Iron		29104.9616		27746.8541		27027.9442		110.5779	113.8952	MG/KG	-1228		-1824		3			20	P
Lithium		25.4716		137.8431		139.4601		110.5779	113.8952	MG/KG	102		100		1		82 - 114	20	P
Magnesium		6015.6899		6294.9013		6232.2961		221.1558	227.7904	MG/KG	126		95		1			20	P
Manganese		260.9284		239.7362		227.8724		55.2889	56.9476	MG/KG	-38		-58		5			20	P
Phosphorus		246.8894		321.9298		333.9294		110.5779	113.8952	MG/KG	68	N	76		4		75 - 125	20	P
Potassium		2393.1320		3655.8805		3609.9112		1105.7788	1138.9522	MG/KG	114		107		1		75 - 125	20	P
Sodium		132.6426		1198.4453		1225.6538		1105.7788	1138.9522	MG/KG	96		96		2		75 - 125	20	P
Strontium		21.5572		130.8092		133.5934		110.5779	113.8952	MG/KG	99		98		2		75 - 115	20	P
Tin		2.8839	B	369.8321		384.2927		442.3115	455.5809	MG/KG	83		84		4		80 - 110	20	P
Titanium		1255.4294		1382.8715		1401.3872		110.5779	113.8952	MG/KG	115		128		1			20	P
Zirconium		5.0711	B	111.6870		111.8064		110.5779	113.8952	MG/KG	96		94		0		75 - 125	20	P

DE196

METHODS:
P = ICP Atomic Emission Spectrometer CV = Cold Vapor
MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE196
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6339505BKG Matrix Spike Lab Sample ID: 6339505MS Matrix Spike Duplicate Lab Sample ID: 6339505MSD
% Solids for Sample: 87.3
Batch Id(s): P19926C

		BKG Sample		MS Sample		MSD Sample		MS Spike	MSD Spike		MS		MSD				Control Limit		
Analyte	Mass	Result	C	Result	C	Result	C	Added	Added	Units	%R	Q	%R	Q	RPD	Q	%R	RPD	M
Antimony	121	0.1699	B	1.0518		0.8432		1.3610	1.3476	MG/KG	65	N	50	N	22	*	75 - 125	20	MS
Arsenic	75	6.6727		9.0073		8.0880		2.2683	2.2460	MG/KG	103		63	N	11		75 - 125	20	MS
Barium	137	131.2959		152.2915		136.0870		11.3413	11.2302	MG/KG	185		43		11			20	MS
Beryllium	9	0.9090		1.8214		1.6742		0.9073	0.8984	MG/KG	101		85		8		75 - 125	20	MS
Cadmium	111	0.1840		1.3646		1.3434		1.1341	1.1230	MG/KG	104		103		2		75 - 125	20	MS
Chromium	52	35.9657		44.8210		44.2468		11.3413	11.2302	MG/KG	78		74	N	1		75 - 125	20	MS
Cobalt	59	10.5206		72.7887		64.8204		56.7067	56.1508	MG/KG	110		97		12		75 - 125	20	MS
Copper	63	15.2871		28.3080		25.8293		11.3413	11.2302	MG/KG	115		94		9		75 - 125	20	MS
Lead	208	8.0005		11.9855		11.1291		3.4024	3.3690	MG/KG	117		93		7		75 - 125	20	MS
Molybdenum	98	0.6077		12.2963		11.4772		11.3413	11.2302	MG/KG	103		97		7		75 - 125	20	MS
Nickel	60	26.4683		40.4205		36.6328		11.3413	11.2302	MG/KG	123		91		10		75 - 125	20	MS
Selenium	78	0.1259	B	2.3386		2.1786		2.2683	2.2460	MG/KG	98		91		7		75 - 125	20	MS
Silver	107	0.0460	B	11.8086		10.8483		11.3413	11.2302	MG/KG	104		96		8		75 - 125	20	MS
Thallium	203	0.3792		0.7252		0.7396		0.4537	0.4492	MG/KG	76		80		2		75 - 125	20	MS
Vanadium	51	59.4090		70.0668		66.1231		11.3413	11.2302	MG/KG	94		60		6			20	MS
Zinc	66	71.8202		87.2830		79.5095		11.3413	11.2302	MG/KG	136		68		9			20	MS

6339505

METHODS:
P = ICP Atomic Emission Spectrometer CV = Cold Vapor
MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE196
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6339505BKG Serial Dilution Lab Sample ID: 6339505L
Batch ID(s): P19926C
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Antimony	121	0.7640	B	1.8500	U	100		MS
Arsenic	75	30.0000		36.6150		22		MS
Barium	137	590.3000		693.0000		17	E	MS
Beryllium	9	4.0870		4.4430		9		MS
Cadmium	111	0.8272		1.1000	U	100		MS
Chromium	52	161.7000		201.2000		24	E	MS
Cobalt	59	47.3000		56.7000		20	E	MS
Copper	63	68.7300		77.8000		13	E	MS
Lead	208	35.9700		41.6150		16	E	MS
Molybdenum	98	2.7320		3.2730		20		MS
Nickel	60	119.0000		135.7500		14	E	MS
Selenium	78	0.5661	B	1.4500	U	100		MS
Silver	107	0.2066	B	0.4326	B	109		MS
Thallium	203	1.7050		1.4725	B	14		MS
Vanadium	51	267.1000		321.6000		20	E	MS
Zinc	66	322.9000		395.5000		22	E	MS

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

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

CONCENTRATION QUALIFIERS: DE196 2945
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE197

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	TB-070911	6340794	TB	5030B	8015M	III
11-Jul-2011	TB-070911	6340794	TB	5030B	8260B	III
11-Jul-2011	TB-070911	6340794	TB	5030B	8260B SIM	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3050B	6010B	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3050B	6020	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3550B	8082	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3550B	8270C	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	3550B	8270C SIM	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	5035	8260B	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	5035	8260B SIM	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	Gen Prep	7199	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	METHOD	300.0	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	METHOD	314.0	III
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340788	N	METHOD	7471A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3050B	6010B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3050B	6020	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8015B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8015M	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8081A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8082	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8151A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8270C	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	3550B	8270C SIM	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	Gen Prep	7199	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	300.0	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	7471A	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	8015B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340801	N	METHOD	8015M	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3050B	6010B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3050B	6020	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8015B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8015M	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8081A	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8082	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8151A	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8270C	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	3550B	8270C SIM	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	Gen Prep	7199	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	300.0	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	314.0	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	7471A	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	8015B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340795	N	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8081A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8082	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8151A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	3550B	8270C SIM	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	Gen Prep	7199	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	300.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340796	N	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8081A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8082	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8151A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8270C	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	3550B	8270C SIM	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	Gen Prep	7199	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	300.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340797	MS	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8081A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8082	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8151A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8270C	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	3550B	8270C SIM	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	8015B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340798	MSD	METHOD	8015M	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	3050B	6010B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	3050B	6020	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	Gen Prep	7199	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	METHOD	300.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	METHOD	314.0	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5DUP	6340799	DUP	METHOD	7471A	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	P340796M261603	MSD	3550B	8270C	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	P340796R261538	MS	3550B	8270C	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3050B	6010B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3050B	6020	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8015B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8015M	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8081A	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8082	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8151A	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8270C	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	Gen Prep	7199	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	300.0	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	314.0	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	7471A	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	8015B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340802	FD	METHOD	8015M	III
11-Jul-2011	DUP01-SA6-QC-071111DUP	P340802D270122B	DUP	METHOD	314.0	III
11-Jul-2011	DUP01-SA6-QC-071111DUP	P340802D270939B	DUP	METHOD	300.0	III
11-Jul-2011	DUP01-SA6-QC-071111MS	P340802R270208B	MS	METHOD	314.0	III
11-Jul-2011	DUP01-SA6-QC-071111MS	P340802R270953B	MS	METHOD	300.0	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3050B	6010B	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3050B	6020	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3550B	8082	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3550B	8270C	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	3550B	8270C SIM	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	5035	8260B	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	5035	8260B SIM	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	Gen Prep	7199	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	METHOD	300.0	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	METHOD	314.0	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340789	N	METHOD	7471A	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3050B	6010B	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3050B	6020	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3550B	8082	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3550B	8270C	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	Gen Prep	7199	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	METHOD	300.0	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	METHOD	314.0	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340790	N	METHOD	7471A	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3050B	6010B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3050B	6020	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8015B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8015M	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8082	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8270C	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	3550B	8270C SIM	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	5035	8015M	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	5035	8260B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	5035	8260B SIM	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	Gen Prep	7199	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	300.0	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	314.0	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	7471A	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	8015B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340791	N	METHOD	8015M	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3050B	6010B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3050B	6020	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8015B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8015M	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8081A	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8082	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8151A	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8270C	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	3550B	8270C SIM	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	Gen Prep	7199	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	300.0	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	314.0	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	7471A	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	8015B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340800	N	METHOD	8015M	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3050B	6010B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3050B	6020	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8015B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8015M	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8082	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8270C	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	3550B	8270C SIM	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	5035	8015M	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	5035	8260B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	5035	8260B SIM	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	Gen Prep	7199	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	300.0	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	314.0	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	7471A	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	8015B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340792	N	METHOD	8015M	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3050B	6020	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8015B	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8015M	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8082	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8270C	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	3550B	8270C SIM	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	5035	8015M	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	Gen Prep	7199	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	300.0	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	314.0	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	7471A	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	8015B	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340793	N	METHOD	8015M	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-135-SA6-SB-4.0-5.0 **Collected:** 7/11/2011 12:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.7		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-138-SA6-SB-4.0-5.0 **Collected:** 7/11/2011 3:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-138-SA6-SB-9.0-10.0 **Collected:** 7/11/2011 3:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-149-SA5DN-SB-4.0-5.0 **Collected:** 7/11/2011 8:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.88	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-149-SA6-SS-0.0-0.5 **Collected:** 7/11/2011 9:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.81	U	0.81	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-199-SA5DN-SB-4.0-5.0 **Collected:** 7/11/2011 10:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-199-SA5DN-SB-9.0-10.0 **Collected:** 7/11/2011 10:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-292-SA6-SS-0.0-0.5 **Collected:** 7/11/2011 12:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.82	MDL	1.0	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.81	MDL	1.0	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.95	J	1.78	MDL	24.7	PQL	mg/Kg	J	Z, FD

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4740		2.47	MDL	19.8	PQL	mg/Kg	J	E
IRON	24900		2.58	MDL	19.8	PQL	mg/Kg	J	E, E
MANGANESE	267		0.0356	MDL	0.494	PQL	mg/Kg	J	E, E
PHOSPHORUS	521		0.346	MDL	9.88	PQL	mg/Kg	J	E
TIN	4.67	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	4.22	J	0.455	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.31	J	2.07	MDL	28.7	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2010		2.87	MDL	22.9	PQL	mg/Kg	J	E
IRON	26600		2.99	MDL	22.9	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	147		0.0413	MDL	0.574	PQL	mg/Kg	J	E, E
PHOSPHORUS	354		0.402	MDL	11.5	PQL	mg/Kg	J	E
SODIUM	103	J	6.83	MDL	115	PQL	mg/Kg	J	Z
TIN	3.46	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	4.69	J	0.528	MDL	5.74	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1780		2.62	MDL	20.9	PQL	mg/Kg	J	E
IRON	19200		2.73	MDL	20.9	PQL	mg/Kg	J	E, E
MANGANESE	334		0.0377	MDL	0.524	PQL	mg/Kg	J	E, E
PHOSPHORUS	299		0.367	MDL	10.5	PQL	mg/Kg	J	E
SODIUM	72.4	J	6.23	MDL	105	PQL	mg/Kg	J	Z
TIN	2.81	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.30	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2160		2.74	MDL	21.9	PQL	mg/Kg	J	E
IRON	21200		2.86	MDL	21.9	PQL	mg/Kg	J	E, E
MANGANESE	150		0.0394	MDL	0.547	PQL	mg/Kg	J	E, E
PHOSPHORUS	125		0.383	MDL	10.9	PQL	mg/Kg	J	E
TIN	3.30	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.79	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 8:15:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	7.53	J	1.94	MDL	26.9	PQL	mg/Kg	J	Z
IRON	31000		14.0	MDL	108	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-149-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 8:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4770		2.69	MDL	21.5	PQL	mg/Kg	J	E
MANGANESE	457		0.0387	MDL	0.538	PQL	mg/Kg	J	E, E
PHOSPHORUS	277		0.377	MDL	10.8	PQL	mg/Kg	J	E
TIN	3.41	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5970		2.53	MDL	20.3	PQL	mg/Kg	J	E
IRON	18700		2.64	MDL	20.3	PQL	mg/Kg	J	E, E
MANGANESE	286		0.0365	MDL	0.507	PQL	mg/Kg	J	E, E
PHOSPHORUS	559		0.355	MDL	10.1	PQL	mg/Kg	J	E
TIN	3.08	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	3.26	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	35800		14.9	MDL	114	PQL	mg/Kg	J	E, E

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	9760		2.86	MDL	22.9	PQL	mg/Kg	J	E
MANGANESE	455		0.0412	MDL	0.572	PQL	mg/Kg	J	E, E
PHOSPHORUS	307		0.400	MDL	11.4	PQL	mg/Kg	J	E
TIN	3.26	J	0.366	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** REA ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	68900		13.5	MDL	108	PQL	mg/Kg	J	E
IRON	31500		14.1	MDL	108	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	422		0.0389	MDL	0.540	PQL	mg/Kg	J	E, E
PHOSPHORUS	440		0.378	MDL	10.8	PQL	mg/Kg	J	E
TIN	3.05	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	7910		2.55	MDL	20.4	PQL	mg/Kg	J	E
IRON	20500		2.67	MDL	20.4	PQL	mg/Kg	J	E, E
MANGANESE	247		0.0368	MDL	0.511	PQL	mg/Kg	J	E, E
PHOSPHORUS	522		0.358	MDL	10.2	PQL	mg/Kg	J	E
TIN	3.11	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.78	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	27800		13.0	MDL	99.9	PQL	mg/Kg	J	E, E

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.359	U	0.359	MDL	4.99	PQL	mg/Kg	UJ	FD
CALCIUM	6820		2.50	MDL	20.0	PQL	mg/Kg	J	E
MANGANESE	336		0.0359	MDL	0.499	PQL	mg/Kg	J	E, E
PHOSPHORUS	518		0.350	MDL	9.99	PQL	mg/Kg	J	E
TIN	4.79	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	4.88	J	0.459	MDL	4.99	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4860		2.54	MDL	20.3	PQL	mg/Kg	J	E
IRON	23400		2.65	MDL	20.3	PQL	mg/Kg	J	E, E
MANGANESE	239		0.0365	MDL	0.508	PQL	mg/Kg	J	E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	527		0.355	MDL	10.2	PQL	mg/Kg	J	E
TIN	3.47	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.46	J	0.467	MDL	5.08	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	611		2.71	MDL	14.5	PQL	mg/Kg	J	A

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.376	J	0.0562	MDL	0.388	PQL	mg/Kg	J	Z

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	7.74		0.0485	MDL	0.0969	PQL	mg/Kg	J	Q, E, E

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.35		0.0717	MDL	0.194	PQL	mg/Kg	J	Q, E
ARSENIC	4.82		0.0775	MDL	0.388	PQL	mg/Kg	J	FD
CADMIUM	1.85		0.0426	MDL	0.0969	PQL	mg/Kg	J	Q
CHROMIUM	28.0		0.116	MDL	0.388	PQL	mg/Kg	J	Q
COPPER	62.2		0.0775	MDL	0.388	PQL	mg/Kg	J	E, E
LEAD	84.8		0.0099	MDL	0.194	PQL	mg/Kg	J	E, E
NICKEL	14.3		0.0969	MDL	0.388	PQL	mg/Kg	J	Q, Q, E
VANADIUM	28.7		0.0213	MDL	0.0969	PQL	mg/Kg	J	Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0652	MDL	0.450	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.36		0.0562	MDL	0.112	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0832	U	0.0832	MDL	0.225	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0495	U	0.0495	MDL	0.112	PQL	mg/Kg	UJ	Q
CHROMIUM	20.3		0.135	MDL	0.450	PQL	mg/Kg	J	Q
COPPER	6.43		0.0900	MDL	0.450	PQL	mg/Kg	J	E, E
LEAD	7.06		0.0115	MDL	0.225	PQL	mg/Kg	J	E, E
NICKEL	12.6		0.112	MDL	0.450	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0830	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	53.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, Q, E
ZINC	45.9		0.630	MDL	3.37	PQL	mg/Kg	J	A

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.482		0.0519	MDL	0.104	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0768	U	0.0768	MDL	0.207	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.133		0.0456	MDL	0.104	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 3:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	17.6		0.124	MDL	0.415	PQL	mg/Kg	J	Q
COPPER	8.61		0.0830	MDL	0.415	PQL	mg/Kg	J	E, E
LEAD	4.77		0.0106	MDL	0.207	PQL	mg/Kg	J	E, E
NICKEL	13.7		0.104	MDL	0.415	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0298	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	34.7		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, Q, E
ZINC	50.8		0.581	MDL	3.11	PQL	mg/Kg	J	A

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0714	J	0.0616	MDL	0.425	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.512		0.0531	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0786	U	0.0786	MDL	0.212	PQL	mg/Kg	UJ	Q, E
CADMIUM	0.0529	J	0.0467	MDL	0.106	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.3		0.127	MDL	0.425	PQL	mg/Kg	J	Q
COPPER	5.98		0.0850	MDL	0.425	PQL	mg/Kg	J	E, E
LEAD	6.20		0.0108	MDL	0.212	PQL	mg/Kg	J	E, E
NICKEL	9.96		0.106	MDL	0.425	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0371	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	39.7		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, Q, E
ZINC	44.1		0.595	MDL	3.19	PQL	mg/Kg	J	A

Sample ID: SL-149-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 8:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.133	J	0.0606	MDL	0.418	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.675		0.0523	MDL	0.105	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.337		0.0774	MDL	0.209	PQL	mg/Kg	J	Q, E
CADMIUM	0.262		0.0460	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	38.1		0.125	MDL	0.418	PQL	mg/Kg	J	Q
COPPER	12.3		0.0836	MDL	0.418	PQL	mg/Kg	J	E, E
LEAD	9.93		0.0107	MDL	0.209	PQL	mg/Kg	J	E, E
NICKEL	24.4		0.105	MDL	0.418	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0646	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	72.4		0.0230	MDL	0.105	PQL	mg/Kg	J	Q, Q, E
ZINC	65.9		0.585	MDL	3.14	PQL	mg/Kg	J	A

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0576	MDL	0.397	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.660		0.0497	MDL	0.0993	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.179	J	0.0735	MDL	0.199	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.433		0.0437	MDL	0.0993	PQL	mg/Kg	J	Q
CHROMIUM	21.8		0.119	MDL	0.397	PQL	mg/Kg	J	Q
COPPER	15.5		0.0795	MDL	0.397	PQL	mg/Kg	J	E, E
LEAD	20.2		0.0101	MDL	0.199	PQL	mg/Kg	J	E, E
NICKEL	12.6		0.0993	MDL	0.397	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0746	J	0.0141	MDL	0.0993	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	37.6		0.0219	MDL	0.0993	PQL	mg/Kg	J	Q, Q, E
ZINC	102		0.556	MDL	2.98	PQL	mg/Kg	J	A

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.160	J	0.0664	MDL	0.458	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.353		0.0572	MDL	0.114	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.135	J	0.0847	MDL	0.229	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.330		0.0503	MDL	0.114	PQL	mg/Kg	J	Q
CHROMIUM	41.5		0.137	MDL	0.458	PQL	mg/Kg	J	Q
COPPER	18.3		0.0915	MDL	0.458	PQL	mg/Kg	J	E, E
LEAD	10.3		0.0117	MDL	0.229	PQL	mg/Kg	J	E, E
NICKEL	24.3		0.114	MDL	0.458	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0436	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	76.6		0.0252	MDL	0.114	PQL	mg/Kg	J	Q, Q, E
ZINC	78.2		0.641	MDL	3.43	PQL	mg/Kg	J	A

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0894	J	0.0645	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.196		0.0556	MDL	0.111	PQL	mg/Kg	J	Q, E, E

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0953	J	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q, E
CADMIUM	0.318		0.0489	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	34.9		0.133	MDL	0.444	PQL	mg/Kg	J	Q
COPPER	16.9		0.0889	MDL	0.444	PQL	mg/Kg	J	E, E
LEAD	8.44		0.0113	MDL	0.222	PQL	mg/Kg	J	E, E
NICKEL	20.1		0.111	MDL	0.444	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0386	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	67.1		0.0244	MDL	0.111	PQL	mg/Kg	J	Q, Q, E
ZINC	64.8		0.622	MDL	3.33	PQL	mg/Kg	J	A

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	221		1.42	MDL	7.59	PQL	mg/Kg	J	A

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.238	J	0.0587	MDL	0.405	PQL	mg/Kg	J	Z

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.17		0.0506	MDL	0.101	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.420		0.0748	MDL	0.202	PQL	mg/Kg	J	Q, E
CADMIUM	1.41		0.0445	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	20.7		0.121	MDL	0.405	PQL	mg/Kg	J	Q
COPPER	19.2		0.0809	MDL	0.405	PQL	mg/Kg	J	E, E
LEAD	32.6		0.0103	MDL	0.202	PQL	mg/Kg	J	E, E
NICKEL	12.0		0.101	MDL	0.405	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0759	J	0.0144	MDL	0.101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	36.6		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, Q, E

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	796		2.69	MDL	14.4	PQL	mg/Kg	J	A

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.319	J	0.0557	MDL	0.384	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	5.63		0.0480	MDL	0.0961	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.29		0.0711	MDL	0.192	PQL	mg/Kg	J	Q, E
ARSENIC	8.24		0.0768	MDL	0.384	PQL	mg/Kg	J	FD
CADMIUM	2.39		0.0423	MDL	0.0961	PQL	mg/Kg	J	Q
CHROMIUM	34.4		0.115	MDL	0.384	PQL	mg/Kg	J	Q
COPPER	50.3		0.0768	MDL	0.384	PQL	mg/Kg	J	E, E
LEAD	78.3		0.0098	MDL	0.192	PQL	mg/Kg	J	E, E
NICKEL	17.5		0.0961	MDL	0.384	PQL	mg/Kg	J	Q, Q, E
VANADIUM	36.0		0.0211	MDL	0.0961	PQL	mg/Kg	J	Q, Q, E

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* REA *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	481		2.76	MDL	14.8	PQL	mg/Kg	J	A

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.153	J	0.0572	MDL	0.394	PQL	mg/Kg	J	Z

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.70		0.0493	MDL	0.0986	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.774		0.0729	MDL	0.197	PQL	mg/Kg	J	Q, E
CADMIUM	1.30		0.0434	MDL	0.0986	PQL	mg/Kg	J	Q
CHROMIUM	61.0		0.118	MDL	0.394	PQL	mg/Kg	J	Q
COPPER	27.1		0.0789	MDL	0.394	PQL	mg/Kg	J	E, E
LEAD	48.8		0.0101	MDL	0.197	PQL	mg/Kg	J	E, E
NICKEL	18.2		0.0986	MDL	0.394	PQL	mg/Kg	J	Q, Q, E
VANADIUM	41.2		0.0217	MDL	0.0986	PQL	mg/Kg	J	Q, Q, E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.56	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 *Collected:* 7/11/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: DE197_v1. eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.35	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

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

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0206	J	0.0080	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 *Collected:* 7/11/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0102	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0820	J	0.0070	MDL	0.0998	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: DE197_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8015M **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 ***Collected:*** 7/11/2011 9:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	44	J	40	MDL	120	PQL	mg/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.47	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.70	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 3:05:00 ***Analysis Type:*** REA3 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.81	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** REA3 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	5.5	J	4.4	MDL	13	PQL	mg/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	4.4	J	4.0	MDL	12	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:42:00 ***Analysis Type:*** REA2 ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	42	J	40	MDL	120	PQL	mg/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:42:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.0	U	5.0	MDL	10	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: PrepDE197_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	41		6.7	MDL	34	PQL	ug/Kg	J	FD
DIELDRIN	8.8	U	8.8	MDL	34	PQL	ug/Kg	UJ	FD
ENDOSULFAN II	36		6.7	MDL	34	PQL	ug/Kg	J	FD
ENDRIN ALDEHYDE	12	J	6.7	MDL	34	PQL	ug/Kg	J	Z, FD

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.87		0.067	MDL	0.34	PQL	ug/Kg	J	S
Chlordane	2.3	J	0.81	MDL	3.4	PQL	ug/Kg	J	Z, S
ENDOSULFAN II	0.26	J	0.067	MDL	0.34	PQL	ug/Kg	J	Z, S
ENDRIN ALDEHYDE	0.62		0.067	MDL	0.34	PQL	ug/Kg	J	S
HEPTACHLOR	0.13	J	0.061	MDL	0.17	PQL	ug/Kg	J	Z, S
HEPTACHLOR EPOXIDE	0.56		0.034	MDL	0.17	PQL	ug/Kg	J	S

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 25

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	3.4	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z
DIELDRIN	2.6	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 100

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	6.7	U	6.7	MDL	34	PQL	ug/Kg	UJ	FD
DIELDRIN	60		6.7	MDL	34	PQL	ug/Kg	J	FD
ENDOSULFAN II	15	U	15	MDL	34	PQL	ug/Kg	UJ	FD
ENDRIN ALDEHYDE	14	U	14	MDL	34	PQL	ug/Kg	UJ	FD

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 20

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Chlordane	39	J	16	MDL	69	PQL	ug/Kg	J	Z
ENDRIN ALDEHYDE	5.8	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z
MIREX	1.8	J	1.3	MDL	6.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.70	J	0.33	MDL	1.7	PQL	ug/Kg	J	Z, FD
Aroclor 5460	1.0	U	1.0	MDL	3.3	PQL	ug/Kg	UJ	FD

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 200

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	2600		67	MDL	340	PQL	ug/Kg	J	FD
Aroclor 5460	3300		200	MDL	670	PQL	ug/Kg	J	FD

Method Category: SVOA

Method: 8151A **Matrix: SO**

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.53	U	0.53	MDL	0.53	PQL	ug/Kg	UJ	FD
2,4,5-TP (Silvex)	0.40		0.076	MDL	0.17	PQL	ug/Kg	J	S, FD
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.3	J	0.63	MDL	1.7	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.077	J	0.077	MDL	0.17	PQL	ug/Kg	J	Z
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	L

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-T	0.62		0.083	MDL	0.17	PQL	ug/Kg	J	Q, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: PrepDE197_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.076	U	0.076	MDL	0.17	PQL	ug/Kg	UJ	FD
DICAMBA	0.40	U	0.40	MDL	1.2	PQL	ug/Kg	R	Q
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	Q, L

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DICAMBA	0.69	J	0.41	MDL	1.2	PQL	ug/Kg	J	Z
DINOSEB	0.81	U	0.81	MDL	2.4	PQL	ug/Kg	R	L
MCPA	190	J	77	MDL	250	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	89	J	17	MDL	170	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	28	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	150	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
DIBENZOFURAN	21	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
FLUORENE	44	J	17	MDL	170	PQL	ug/Kg	J	Z
N-NITROSODIPHENYLAMINE	140	J	17	MDL	170	PQL	ug/Kg	J	Z, FD

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	31	J	19	MDL	390	PQL	ug/Kg	J	Z

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	33	J	18	MDL	360	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory:** LL

EDD Filename: PrepDE197_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	20	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	36	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-9.0-10.0 ***Collected:*** 7/11/2011 10:05:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	29	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-292-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	66	J	17	MDL	170	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	41	J	17	MDL	170	PQL	ug/Kg	J	Z
Butylbenzylphthalate	25	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZOFURAN	26	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	130	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	60	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:42:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	R	Q, Q
2,4-DINITROTOLUENE	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
2,6-DINITROTOLUENE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
2-CHLOROPHENOL	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
2-METHYLPHENOL	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-NITROPHENOL	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	340	PQL	ug/Kg	R	Q, Q
3-NITROANILINE	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	500	PQL	ug/Kg	UJ	Q
4-METHYLPHENOL	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
4-NITROANILINE	67	U	67	MDL	170	PQL	ug/Kg	UJ	Q
ANILINE	170	U	170	MDL	500	PQL	ug/Kg	UJ	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BIS(2-CHLOROETHOXY)METHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
BIS(2-CHLOROISOPROPYL) ETHER	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	160	J	17	MDL	340	PQL	ug/Kg	J	Z
CARBAZOLE	27	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
DIBENZOFURAN	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD
HEXACHLOROCYCLOPENTADIENE	170	U	170	MDL	500	PQL	ug/Kg	UJ	Q
HEXACHLOROETHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	Q
N-NITROSODIPHENYLAMINE	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	140	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	100	J	17	MDL	170	PQL	ug/Kg	J	Z
CARBAZOLE	41	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	36	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	130	J	17	MDL	170	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	150	J	60	MDL	180	PQL	ug/Kg	J	Z
Di-n-butylphthalate	200		60	MDL	180	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

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

Sample ID: DUP01-SA6-QC-071111 ***Collected:*** 7/11/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	50		6.7	MDL	17	PQL	ug/Kg	J	FD

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-138-SA6-SB-9.0-10.0 ***Collected:*** 7/11/2011 3:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.74	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 8:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.4	J	6.5	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-149-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 9:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	8.2	J	6.6	MDL	17	PQL	ug/Kg	J	Z
Butylbenzylphthalate	69	J	60	MDL	180	PQL	ug/Kg	J	Z
Di-n-butylphthalate	85	J	60	MDL	180	PQL	ug/Kg	U	B
Di-n-octylphthalate	64	J	60	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	10	J	6.6	MDL	17	PQL	ug/Kg	J	Z
PHENANTHRENE	8.5	J	6.6	MDL	17	PQL	ug/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 ***Collected:*** 7/11/2011 10:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.5	J	7.0	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-292-SA6-SS-0.0-0.5 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	68	J	61	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: PrepDE197_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	11	J	6.6	MDL	17	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	9.1	J	3.3	MDL	17	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	530		6.6	MDL	17	PQL	ug/Kg	J	L
Di-n-butylphthalate	160	J	60	MDL	180	PQL	ug/Kg	U	B
FLUORENE	7.5	J	6.6	MDL	17	PQL	ug/Kg	J	Z
NAPHTHALENE	6.6	U	6.6	MDL	17	PQL	ug/Kg	UJ	FD

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	15	J	6.7	MDL	17	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	180		6.7	MDL	17	PQL	ug/Kg	J	L
Di-n-butylphthalate	190		60	MDL	180	PQL	ug/Kg	U	B
FLUORENE	8.0	J	6.7	MDL	17	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	160	J	100	MDL	500	PQL	ug/Kg	J	Z, FD

Sample ID: DUP01-SA6-QC-071111 *Collected:* 7/11/2011 9:50:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	UJ	S

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	UJ	S

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	100	U	100	MDL	500	PQL	ug/Kg	UJ	FD

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	Q, S
O-TERPHENYL	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	Q, S
p-Terphenyl	1.5	U	1.5	MDL	3.5	PQL	mg/Kg	R	Q, S

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-135-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 0.84

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	15		6.5	MDL	7.8	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.6		0.24	MDL	3.9	PQL	ug/Kg	UJ	L, B
TOLUENE	0.12	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1.02

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		7.3	MDL	8.7	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.0		0.26	MDL	4.4	PQL	ug/Kg	UJ	L, B
TOLUENE	0.14	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* RES *Dilution:* 0.99

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		7.3	MDL	8.7	PQL	ug/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix: SO**

Sample ID: SL-149-SA5DN-SB-4.0-5.0 **Collected: 7/11/2011 8:15:00** **Analysis Type: RES** **Dilution: 0.99**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	6.9		0.26	MDL	4.4	PQL	ug/Kg	UJ	L, B
TOLUENE	0.1	J	0.09	MDL	4.4	PQL	ug/Kg	U	B

Sample ID: SL-199-SA5DN-SB-4.0-5.0 **Collected: 7/11/2011 10:00:00** **Analysis Type: RES** **Dilution: 0.85**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	14		6.7	MDL	8.0	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	7.7		0.24	MDL	4.0	PQL	ug/Kg	UJ	L, B
TOLUENE	0.15	J	0.08	MDL	4.0	PQL	ug/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: PrepDE197_v1 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE197

Method Blank Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19408DB220504	7/22/2011 5:04:00 AM	CALCIUM	3.10 mg/Kg	DUP01-SA6-QC-071111
		IRON	4.74 mg/Kg	SL-135-SA6-SB-4.0-5.0
		LITHIUM	0.67 mg/Kg	SL-138-SA6-SB-4.0-5.0
		MAGNESIUM	1.14 mg/Kg	SL-138-SA6-SB-9.0-10.0
		MANGANESE	0.0430 mg/Kg	SL-149-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.40 mg/Kg	SL-149-SA6-SS-0.0-0.5
		STRONTIUM	0.0270 mg/Kg	SL-199-SA5DN-SB-4.0-5.0
		TIN	1.72 mg/Kg	SL-199-SA5DN-SB-9.0-10.0
				SL-292-SA6-SS-0.0-0.5
				SL-297-SA6-SS-0.0-0.5
				SL-298-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA6-QC-071111(RES)	TIN	4.67 mg/Kg	4.67U mg/Kg
SL-135-SA6-SB-4.0-5.0(RES)	TIN	3.46 mg/Kg	3.46U mg/Kg
SL-138-SA6-SB-4.0-5.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-138-SA6-SB-9.0-10.0(RES)	TIN	3.30 mg/Kg	3.30U mg/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	TIN	3.41 mg/Kg	3.41U mg/Kg
SL-149-SA6-SS-0.0-0.5(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	TIN	3.26 mg/Kg	3.26U mg/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-292-SA6-SS-0.0-0.5(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-297-SA6-SS-0.0-0.5(RES)	TIN	4.79 mg/Kg	4.79U mg/Kg
SL-298-SA6-SS-0.0-0.5(RES)	TIN	3.47 mg/Kg	3.47U mg/Kg

Method: **6020**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P19426BB222145A	7/14/2011 9:45:00 PM	COPPER	0.0826 mg/Kg	DUP01-SA6-QC-071111
		VANADIUM	0.0404 mg/Kg	SL-135-SA6-SB-4.0-5.0
				SL-138-SA6-SB-4.0-5.0
				SL-138-SA6-SB-9.0-10.0
				SL-149-SA5DN-SB-4.0-5.0
				SL-149-SA6-SS-0.0-0.5
				SL-199-SA5DN-SB-4.0-5.0
				SL-199-SA5DN-SB-9.0-10.0
				SL-292-SA6-SS-0.0-0.5
				SL-297-SA6-SS-0.0-0.5
				SL-298-SA6-SS-0.0-0.5

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB16B211206A	7/14/2011 12:06:00 PM	ACETONE	9.3 ug/Kg	SL-135-SA6-SB-4.0-5.0
		CHLOROFORM	0.14 ug/Kg	SL-138-SA6-SB-4.0-5.0
		METHYLENE CHLORIDE	2.1 ug/Kg	SL-149-SA5DN-SB-4.0-5.0
		TOLUENE	0.11 ug/Kg	SL-199-SA5DN-SB-4.0-5.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: DE197_v1. eQAPP Name: CDM_SSFL_110509

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-135-SA6-SB-4.0-5.0(RES)	ACETONE	15 ug/Kg	15U ug/Kg
SL-135-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.6 ug/Kg	7.6U ug/Kg
SL-135-SA6-SB-4.0-5.0(RES)	TOLUENE	0.12 ug/Kg	3.9U ug/Kg
SL-138-SA6-SB-4.0-5.0(RES)	ACETONE	14 ug/Kg	14U ug/Kg
SL-138-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.0 ug/Kg	7.0U ug/Kg
SL-138-SA6-SB-4.0-5.0(RES)	TOLUENE	0.14 ug/Kg	4.4U ug/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	ACETONE	14 ug/Kg	14U ug/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	6.9 ug/Kg	6.9U ug/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.1 ug/Kg	4.4U ug/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	ACETONE	14 ug/Kg	14U ug/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	7.7 ug/Kg	7.7U ug/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	TOLUENE	0.15 ug/Kg	4.0U ug/Kg

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLF19B261714	7/19/2011 5:14:00 PM	Di-n-butylphthalate	7.6 ug/Kg	DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA6-QC-071111(RES)	Di-n-butylphthalate	200 ug/Kg	200U ug/Kg
SL-149-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	85 ug/Kg	180U ug/Kg
SL-297-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	160 ug/Kg	180U ug/Kg
SL-298-SA6-SS-0.0-0.5(RES)	Di-n-butylphthalate	190 ug/Kg	190U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 Laboratory: LL

EDD Filename: DE197_v1. eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	9 29 44	22 47 -	59.00-109.00 63.00-107.00 63.00-107.00	84 (20.00) 47 (20.00) 39 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	2,4,5-TP (Silvex) 2,4-DB	- 258	- 301	24.00-141.00 10.00-201.00	118 (35.00) -	2,4,5-TP (Silvex) 2,4-DB	J(all detects)
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	DICAMBA DINOSEB	0 0	- 0	10.00-190.00 10.00-46.00	200 (50.00) -	DICAMBA DINOSEB	J(all detects) R(all non-detects)
SL-297-SA6-SS-0.0-0.5MS (SL-297-SA6-SS-0.0-0.5)	2,4,5-T	1	-	10.00-156.00	-	2,4,5-T	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	EFH (C21-C30) EFH (C30-C40)	2200 2747	7665 9486	49.00-123.00 49.00-123.00	21 (20.00) -	EFH (C21-C30) EFH (C30-C40)	No Qual, Diluted Out
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	0 0 0	0 762 0	49.00-123.00 49.00-123.00 49.00-123.00	- 200 (20.00) -	EFH (C12-C14) EFH (C15-C20) EFH (C8-C11)	No Qual, Diluted Out

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	DIELDRIN ENDRIN ALDEHYDE gamma-BHC (Lindane)	3356 2742 612	1843 2492 559	19.00-154.00 10.00-148.00 10.00-140.00	- - -	DIELDRIN ENDRIN ALDEHYDE gamma-BHC (Lindane)	No Qual, Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	4,4'-DDD	0	0	16.00-163.00	-	4,4'-DDD	No Qual, Diluted Out
	4,4'-DDE	0	0	18.00-161.00	-	4,4'-DDE	
	4,4'-DDT	-4084	1830	10.00-176.00	-	4,4'-DDT	
	ALDRIN	0	0	16.00-126.00	-	ALDRIN	
	ALPHA-BHC	0	0	10.00-129.00	-	ALPHA-BHC	
	BETA-BHC	0	0	14.00-147.00	-	BETA-BHC	
	DELTA-BHC	0	0	23.00-140.00	-	DELTA-BHC	
	ENDOSULFAN I	0	0	16.00-137.00	-	ENDOSULFAN I	
	ENDOSULFAN II	2611	0	28.00-154.00	200 (50.00)	ENDOSULFAN II	
	ENDOSULFAN SULFATE	0	0	21.00-160.00	-	ENDOSULFAN SULFATE	
	ENDRIN	4558	0	11.00-149.00	200 (50.00)	ENDRIN	
	ENDRIN KETONE	0	0	22.00-165.00	-	ENDRIN KETONE	
	HEPTACHLOR	0	0	13.00-126.00	-	HEPTACHLOR	
	HEPTACHLOR EPOXIDE	6197	0	13.00-157.00	200 (50.00)	HEPTACHLOR EPOXIDE	
	METHOXYCHLOR	0	0	32.00-147.00	-	METHOXYCHLOR	

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS	m-Terphenyl	-	9	75.00-125.00	157 (20.00)	m-Terphenyl	J(all detects) UJ(all non-detects)
SL-297-SA6-SS-0.0-0.5MSD	O-TERPHENYL	69	11	75.00-125.00	144 (20.00)	O-TERPHENYL	
(SL-297-SA6-SS-0.0-0.5)	p-Terphenyl	-	46	75.00-125.00	62 (20.00)	p-Terphenyl	

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS	AROCLOR 1016	0	0	29.00-146.00	-	AROCLOR 1016	No Qual, Diluted Out
SL-297-SA6-SS-0.0-0.5MSD	AROCLOR 1260	0	0	39.00-149.00	-	AROCLOR 1260	
(SL-297-SA6-SS-0.0-0.5)							

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	CHROMIUM	175	-	75.00-125.00	-	CHROMIUM	J(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ARSENIC ZINC	-30 -1864	-55 -661	75.00-125.00 75.00-125.00	- -	ARSENIC ZINC	No Qual, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ANTIMONY CADMIUM COPPER LEAD NICKEL VANADIUM	64 36 180 1607 73 49	35 67 45 180 181 179	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - 21 (20.00) 40 (20.00) 37 (20.00) 28 (20.00)	ANTIMONY CADMIUM COPPER LEAD NICKEL VANADIUM	J(all detects) UJ(all non-detects) Cu, Pb, No Qual %R, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	MOLYBDENUM	226	-	75.00-125.00	52 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-297-SA6-SS-0.0-0.5MS (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	BARIUM	-32	-	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ALUMINUM	155	866	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	CALCIUM MAGNESIUM	-299 -	574 20	75.00-125.00 75.00-125.00	47 (20.00) -	CALCIUM MAGNESIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	IRON MANGANESE PHOSPHORUS	17569 - 333	3503 291 71	75.00-125.00 75.00-125.00 75.00-125.00	37 (20.00) 22 (20.00) 37 (20.00)	IRON MANGANESE PHOSPHORUS	J(all detects) UJ(all non-detects) No Qual %R, >4x

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	BENZO(G,H,I)PERYLENE BENZOIC ACID DIBENZO(A,H)ANTHRACENE HEXACHLOROBENZENE INDENO(1,2,3-CD)PYRENE PENTACHLOROPHENOL	- - - - - -	183 - 126 137 146 -	59.00-127.00 10.00-173.00 65.00-125.00 77.00-114.00 61.00-126.00 28.00-127.00	41 (30.00) 50 (30.00) - 44 (30.00) - 71 (30.00)	BENZO(G,H,I)PERYLENE BENZOIC ACID DIBENZO(A,H)ANTHRACENE HEXACHLOROBENZENE INDENO(1,2,3-CD)PYRENE PENTACHLOROPHENOL	J(all detects)
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE BENZIDINE	11 11 0	0 0 0	20.00-143.00 16.00-119.00 35.00-141.00	200 (30.00) 200 (30.00) -	2,4-DINITROPHENOL 3,3'-DICHLOROBENZIDINE BENZIDINE	J(all detects) R(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	2,4-DINITROTOLUENE	-	44	73.00-113.00	59 (30.00)	2,4-DINITROTOLUENE	J(all detects) UJ(all non-detects)
	2,6-DINITROTOLUENE	-	48	69.00-123.00	56 (30.00)	2,6-DINITROTOLUENE	
	2-CHLOROPHENOL	-	72	73.00-121.00	-	2-CHLOROPHENOL	
	2-METHYLPHENOL	-	71	75.00-111.00	-	2-METHYLPHENOL	
	2-NITROPHENOL	-	53	74.00-115.00	43 (30.00)	2-NITROPHENOL	
	3-NITROANILINE	-	45	59.00-122.00	50 (30.00)	3-NITROANILINE	
	4,6-DINITRO-2-METHYLPHENOL	16	11	24.00-116.00	35 (30.00)	4,6-DINITRO-2-METHYLPHEN	
	4-METHYLPHENOL	-	67	71.00-111.00	-	4-METHYLPHENOL	
	4-NITROANILINE	-	48	52.00-112.00	36 (30.00)	4-NITROANILINE	
	ANILINE	33	21	35.00-95.00	44 (30.00)	ANILINE	
	BIS(2-CHLOROETHOXY)METHA	-	73	75.00-104.00	-	BIS(2-CHLOROETHOXY)METH	
	BIS(2-CHLOROISOPROPYL) ET	-	53	55.00-142.00	-	BIS(2-CHLOROISOPROPYL) E	
	HEXACHLOROCYCLOPENTADI	-	9	10.00-153.00	72 (30.00)	HEXACHLOROCYCLOPENTAD	
	HEXACHLOROETHANE	-	56	57.00-109.00	-	HEXACHLOROETHANE	

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT	485	-	39.00-167.00	45 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	No Qual, Diluted Out
	Butylbenzylphthalate	250	237	57.00-173.00	-	Butylbenzylphthalate	
	Di-n-octylphthalate	290	274	40.00-192.00	-	Di-n-octylphthalate	
	NAPHTHALENE	103	-	61.00-102.00	-	NAPHTHALENE	
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	BENZO(A)ANTHRACENE	-325	-98	59.00-128.00	-	BENZO(A)ANTHRACENE	No Qual, Diluted Out
	BENZO(A)PYRENE	-354	-165	45.00-138.00	-	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-425	-261	43.00-155.00	-	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-347	-413	33.00-141.00	-	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-211	-26	57.00-153.00	-	BENZO(K)FLUORANTHENE	
	CHRYSENE	-429	-340	48.00-134.00	-	CHRYSENE	
	Diethylphthalate	0	0	70.00-136.00	-	Diethylphthalate	
	Dimethylphthalate	0	0	74.00-118.00	-	Dimethylphthalate	
	FLUORANTHENE	-1195	-781	26.00-166.00	-	FLUORANTHENE	
	INDENO(1,2,3-CD)PYRENE	-269	-255	21.00-143.00	-	INDENO(1,2,3-CD)PYRENE	
	PHENANTHRENE	-351	-281	12.00-165.00	-	PHENANTHRENE	
	PYRENE	-739	-519	15.00-153.00	-	PYRENE	
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	ANTHRACENE	44	49	73.00-115.00	-	ANTHRACENE	No Qual, Diluted Out
	DIBENZO(A,H)ANTHRACENE	5	14	22.00-133.00	-	DIBENZO(A,H)ANTHRACENE	
	Di-n-butylphthalate	178	32	65.00-148.00	-	Di-n-butylphthalate	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS (SL-135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-SA6-SB-9.0-10.0 SL -149-SA5DN -SB-4.0-5.0 SL -149-SA6-SS-0.0-0.5 SL -199-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-9.0-10.0 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-297-SA6-SS-0.0-0.5MS **SL-297-SA6-SS-0.0-0.5MSD** (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	TITANIUM	329	306	75.00-125.00	-	TITANIUM	No Qual, >4x

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
DUP01-SA6-QC-071111DUP (DUP01-SA6-QC-071111)	FLUORIDE	30	20.00	No Qual, OK by Difference
SL-297-SA6-SS-0.0-0.5DUP (SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	FLUORIDE	30	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	IRON	22	20.00	
	MANGANESE	25	20.00	
	SODIUM	23	20.00	J(all detects) UJ(all non-detects)
				Na, No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	ANTIMONY	53	20.00	
	COPPER	22	20.00	
	LEAD	59	20.00	J(all detects) UJ(all non-detects)
	MOLYBDENUM	119	20.00	
	SELENIUM	41	20.00	
	SILVER	63	20.00	
				Se, Ag, No Qual, OK by Difference

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	HEXAVALENT CHROMIUM	53	20.00	No Qual, OK by Difference

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-297-SA6-SS-0.0-0.5DUP (DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5)	MERCURY	41	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P11953AQ242146A (DUP01 -SA6-QC-071111 SL -149-SA6-SS-0.0-0.5 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	DINOSEB	7	-	10.00-36.00	-	DINOSEB	J (all detects) R (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19426BQ222148A (DUP01 -SA6-QC-071111 SL -135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-SA6-SB-9.0-10.0 SL -149-SA5DN -SB-4.0-5.0 SL -149-SA6-SS-0.0-0.5 SL -199-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-9.0-10.0 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	ANTIMONY	64	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P19408DQ220508	ALUMINUM	146	-	80.00-120.00	-	ALUMINUM	
(DUP01 -SA6-QC-071111	IRON	124	-	80.00-120.00	-	IRON	
SL -135-SA6-SB-4.0-5.0	MAGNESIUM	127	-	80.00-120.00	-	MAGNESIUM	
SL -138-SA6-SB-4.0-5.0 SL -138-SA6-SB-9.0-10.0 SL -149-SA5DN -SB-4.0-5.0 SL -149-SA6-SS-0.0-0.5 SL -199-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-9.0-10.0 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)							No Qual, SRM within QC Limits

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P9LFLCSQ261745 (DUP01 -SA6-QC-071111 SL -135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-SA6-SB-9.0-10.0 SL -149-SA5DN -SB-4.0-5.0 SL -149-SA6-SS-0.0-0.5 SL -199-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-9.0-10.0 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	BENZO(A)PYRENE	130	-	58.00-129.00	-	BENZO(A)PYRENE	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P20408AQ220410 (DUP01 -SA6-QC-071111 SL -135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -138-SA6-SB-9.0-10.0 SL -149-SA5DN -SB-4.0-5.0 SL -149-SA6-SS-0.0-0.5 SL -199-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-9.0-10.0 SL -292-SA6-SS-0.0-0.5 SL -297-SA6-SS-0.0-0.5 SL -298-SA6-SS-0.0-0.5)	TITANIUM	133	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits

Method: 8260B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSB16Q211423A **LCSB16Y211251A** (SL-135-SA6-SB-4.0-5.0 SL -138-SA6-SB-4.0-5.0 SL -149-SA5DN -SB-4.0-5.0 SL -199-SA5DN -SB-4.0-5.0)	METHYLENE CHLORIDE	129	127	76.00-124.00	-	METHYLENE CHLORIDE	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP01-SA6-QC-071111	n-Triacontane-d62	41	50.00-150.00	All Target Analytes	J (all detects) UJ (all non-detects)
SL-149-SA6-SS-0.0-0.5	ACETONE	152	42.00-138.00	All Target Analytes	J(all detects)
SL-292-SA6-SS-0.0-0.5	n-Triacontane-d62	46	50.00-150.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-297-SA6-SS-0.0-0.5	n-Triacontane-d62	1	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-149-SA6-SS-0.0-0.5	DECACHLOROBIPHENYL	176	20.00-120.00	All Target Analytes	J(all detects)

Method: 8151A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP01-SA6-QC-071111	2,4-Dichlorophenylacetic acid	358	36.00-156.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
MOISTURE	0.85	0.80	6		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
FLUORIDE	2.7	1.8	40	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
ALUMINUM	11200	9320	18	50.00	
CALCIUM	6820	4740	36	50.00	
IRON	27800	24900	11	50.00	
LITHIUM	17.1	14.6	16	50.00	
MAGNESIUM	4420	3660	19	50.00	
MANGANESE	336	267	23	50.00	
PHOSPHORUS	518	521	1	50.00	No Qualifiers Applied
POTASSIUM	2520	2080	19	50.00	
SODIUM	193	158	20	50.00	
STRONTIUM	30.6	26.0	16	50.00	
TIN	4.79	4.67	3	50.00	
TITANIUM	706	702	1	50.00	
Zirconium	4.88	4.22	15	50.00	
BORON	4.99 U	4.95	200	50.00	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
ANTIMONY	1.29	1.35	5	50.00	
BARIUM	75.2	69.9	7	50.00	
BERYLLIUM	0.418	0.320	27	50.00	
CADMIUM	2.39	1.85	25	50.00	
CHROMIUM	34.4	28.0	21	50.00	
COBALT	9.83	8.65	13	50.00	
COPPER	50.3	62.2	21	50.00	
LEAD	78.3	84.8	8	50.00	No Qualifiers Applied
MOLYBDENUM	5.63	7.74	32	50.00	
NICKEL	17.5	14.3	20	50.00	
SELENIUM	0.319	0.376	16	50.00	
SILVER	0.197	0.129	42	50.00	
THALLIUM	0.193	0.150	25	50.00	
VANADIUM	36.0	28.7	23	50.00	
ZINC	796	611	26	50.00	
ARSENIC	8.24	4.82	52	50.00	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
HEXAVALENT CHROMIUM	4.8	2.9	49	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
MERCURY	0.413	0.332	22	50.00	No Qualifiers Applied

Method: 8015B
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
METHANOL	500 U	160	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
EFH (C15-C20)	42	44	5	50.00	
EFH (C21-C30)	450	500	11	50.00	No Qualifiers Applied
EFH (C30-C40)	830	870	5	50.00	

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
4,4'-DDT	200	160	22	50.00	No Qualifiers Applied
4,4'-DDE	34 U	41	200	50.00	
DIELDRIN	60	34 U	200	50.00	J(all detects)
ENDOSULFAN II	34 U	36	200	50.00	UJ(all non-detects)
ENDRIN ALDEHYDE	34 U	12	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
AROCLOR 1254	2600	0.70	200	50.00	J(all detects)
Aroclor 5460	3300	3.3 U	200	50.00	UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
2,4,5-T	0.62	0.53 U	200	50.00	J(all detects)
2,4,5-TP (Silvex)	0.17 U	0.40	200	50.00	UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
Di-n-butylphthalate	160	200	22	50.00	No Qualifiers Applied
NAPHTHALENE	17 U	50	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
CARBAZOLE	27	150	139	50.00	J(all detects)
DIBENZOFURAN	170 U	21	200	50.00	UJ(all non-detects)
N-NITROSODIPHENYLAMINE	170 U	140	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
PH	7.90	7.75	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	BORON	J	4.95	24.7	PQL	mg/Kg	J (all detects)
	TIN	J	4.67	9.88	PQL	mg/Kg	
	Zirconium	J	4.22	4.94	PQL	mg/Kg	
SL-135-SA6-SB-4.0-5.0	BORON	J	3.31	28.7	PQL	mg/Kg	J (all detects)
	SODIUM	J	103	115	PQL	mg/Kg	
	TIN	J	3.46	11.5	PQL	mg/Kg	
	Zirconium	J	4.69	5.74	PQL	mg/Kg	
SL-138-SA6-SB-4.0-5.0	SODIUM	J	72.4	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.5	PQL	mg/Kg	
	Zirconium	J	3.30	5.24	PQL	mg/Kg	
SL-138-SA6-SB-9.0-10.0	TIN	J	3.30	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.79	5.47	PQL	mg/Kg	
SL-149-SA5DN-SB-4.0-5.0	BORON	J	7.53	26.9	PQL	mg/Kg	J (all detects)
	TIN	J	3.41	10.8	PQL	mg/Kg	
SL-149-SA6-SS-0.0-0.5	TIN	J	3.08	10.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.26	5.07	PQL	mg/Kg	
SL-199-SA5DN-SB-4.0-5.0	TIN	J	3.26	11.4	PQL	mg/Kg	J (all detects)
SL-199-SA5DN-SB-9.0-10.0	TIN	J	3.05	10.8	PQL	mg/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	TIN	J	3.11	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.78	5.11	PQL	mg/Kg	
SL-297-SA6-SS-0.0-0.5	TIN	J	4.79	9.99	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.88	4.99	PQL	mg/Kg	
SL-298-SA6-SS-0.0-0.5	TIN	J	3.47	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.46	5.08	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	SELENIUM	J	0.376	0.388	PQL	mg/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	SELENIUM	J	0.166	0.450	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0830	0.112	PQL	mg/Kg	
SL-138-SA6-SB-4.0-5.0	SELENIUM	J	0.117	0.415	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0298	0.104	PQL	mg/Kg	
SL-138-SA6-SB-9.0-10.0	CADMIUM	J	0.0529	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0714	0.425	PQL	mg/Kg	
	SILVER	J	0.0371	0.106	PQL	mg/Kg	
SL-149-SA5DN-SB-4.0-5.0	SELENIUM	J	0.133	0.418	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0646	0.105	PQL	mg/Kg	
SL-149-SA6-SS-0.0-0.5	ANTIMONY	J	0.179	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.191	0.397	PQL	mg/Kg	
	SILVER	J	0.0746	0.0993	PQL	mg/Kg	
SL-199-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.135	0.229	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.160	0.458	PQL	mg/Kg	
	SILVER	J	0.0436	0.114	PQL	mg/Kg	
SL-199-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.0953	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0894	0.444	PQL	mg/Kg	
	SILVER	J	0.0386	0.111	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-292-SA6-SS-0.0-0.5	SELENIUM SILVER	J J	0.238 0.0759	0.405 0.101	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-297-SA6-SS-0.0-0.5	SELENIUM	J	0.319	0.384	PQL	mg/Kg	J (all detects)
SL-298-SA6-SS-0.0-0.5	SELENIUM	J	0.153	0.394	PQL	mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-138-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.56	1.1	PQL	mg/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.64	1.1	PQL	mg/Kg	J (all detects)
SL-149-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.52	1.0	PQL	mg/Kg	J (all detects)
SL-199-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-199-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.35	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-135-SA6-SB-4.0-5.0	MERCURY	J	0.0206	0.114	PQL	mg/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	MERCURY	J	0.0102	0.104	PQL	mg/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	MERCURY	J	0.0820	0.0998	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	METHANOL	J	160	500	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	EFH (C15-C20)	J	44	120	PQL	mg/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	EFH (C21-C30) EFH (C30-C40)	J J	0.47 0.70	1.4 1.4	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-138-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.81	1.3	PQL	mg/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	EFH (C15-C20)	J	5.5	13	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-149-SA6-SS-0.0-0.5	EFH (C15-C20)	J	4.4	12	PQL	mg/Kg	J (all detects)
SL-297-SA6-SS-0.0-0.5	EFH (C15-C20)	J	42	120	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	ENDRIN ALDEHYDE	J	12	34	PQL	ug/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	Chlordane	J	2.3	3.4	PQL	ug/Kg	J (all detects)
	ENDOSULFAN II	J	0.26	0.34	PQL	ug/Kg	
	HEPTACHLOR	J	0.13	0.17	PQL	ug/Kg	
SL-292-SA6-SS-0.0-0.5	4,4'-DDD	J	3.4	8.7	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	2.6	8.7	PQL	ug/Kg	
SL-298-SA6-SS-0.0-0.5	Chlordane	J	39	69	PQL	ug/Kg	J (all detects)
	ENDRIN ALDEHYDE	J	5.8	6.9	PQL	ug/Kg	
	MIREX	J	1.8	6.9	PQL	ug/Kg	

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	AROCLOR 1254	J	0.70	1.7	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-149-SA6-SS-0.0-0.5	2,4-DB	J	1.3	1.7	PQL	ug/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.077	0.17	PQL	ug/Kg	J (all detects)
SL-298-SA6-SS-0.0-0.5	DICAMBA	J	0.69	1.2	PQL	ug/Kg	J (all detects)
	MCPA	J	190	250	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-135-SA6-SB-4.0-5.0	TOLUENE	J	0.12	3.9	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-4.0-5.0	TOLUENE	J	0.14	4.4	PQL	ug/Kg	J (all detects)
SL-149-SA5DN-SB-4.0-5.0	TOLUENE	J	0.1	4.4	PQL	ug/Kg	J (all detects)
SL-199-SA5DN-SB-4.0-5.0	TOLUENE	J	0.15	4.0	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	ACENAPHTHENE	J	89	170	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	28	170	PQL	ug/Kg	
	CARBAZOLE	J	150	170	PQL	ug/Kg	
	DIBENZOFURAN	J	21	170	PQL	ug/Kg	
	FLUORENE	J	44	170	PQL	ug/Kg	
	N-NITROSODIPHENYLAMINE	J	140	170	PQL	ug/Kg	
SL-135-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	31	390	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	33	360	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	370	PQL	ug/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	22	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	18	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	27	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	20	170	PQL	ug/Kg	
	CHRYSENE	J	23	170	PQL	ug/Kg	
	FLUORANTHENE	J	36	170	PQL	ug/Kg	
SL-199-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	29	370	PQL	ug/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	ACENAPHTHENE	J	66	170	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	41	170	PQL	ug/Kg	
	Butylbenzylphthalate	J	25	170	PQL	ug/Kg	
	DIBENZOFURAN	J	26	170	PQL	ug/Kg	
	Di-n-butylphthalate	J	130	170	PQL	ug/Kg	
	FLUORENE	J	60	170	PQL	ug/Kg	
SL-297-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	160	340	PQL	ug/Kg	J (all detects)
	CARBAZOLE	J	27	170	PQL	ug/Kg	
SL-298-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	140	170	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	100	170	PQL	ug/Kg	
	CARBAZOLE	J	41	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	36	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	130	170	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	BIS(2-ETHYLHEXYL)PHTHALATE	J	150	180	PQL	ug/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	NAPHTHALENE	J	1.2	1.9	PQL	ug/Kg	J (all detects)
SL-138-SA6-SB-9.0-10.0	NAPHTHALENE	J	0.74	1.8	PQL	ug/Kg	J (all detects)
SL-149-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.4	20	PQL	ug/Kg	J (all detects)
SL-149-SA6-SS-0.0-0.5	BENZO(K)FLUORANTHENE	J	8.2	17	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	69	180	PQL	ug/Kg	
	Di-n-butylphthalate	J	85	180	PQL	ug/Kg	
	Di-n-octylphthalate	J	64	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	10	17	PQL	ug/Kg	
	PHENANTHRENE	J	8.5	17	PQL	ug/Kg	
SL-199-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.5	21	PQL	ug/Kg	J (all detects)
SL-292-SA6-SS-0.0-0.5	Di-n-octylphthalate	J	68	180	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE197 **Laboratory: LL**

EDD Filename: DE197_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-297-SA6-SS-0.0-0.5	ACENAPHTHENE	J	11	17	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	9.1	17	PQL	ug/Kg	
	Di-n-butylphthalate	J	160	180	PQL	ug/Kg	
	FLUORENE	J	7.5	17	PQL	ug/Kg	
SL-298-SA6-SS-0.0-0.5	ACENAPHTHENE	J	15	17	PQL	ug/Kg	J (all detects)
	FLUORENE	J	8.0	17	PQL	ug/Kg	

LDC #: 26407P4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11
SDG #: DE197 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: OC
2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	No Qual's
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	~~N~~ A	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

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

Validated Samples:

1	SL-148-SA5DN-SB-4.0-5.0	11	DUP01-SA6-QC-071111	21		31	
2	SL-199-SA5DN-SB-4.0-5.0	12	SL-297-SA6-SS-0.0-0.5MS	22		32	
3	SL-199-SA5DN-SB-9.0-10.0	13	SL-297-SA6-SS-0.0-0.5MSD	23		33	
4	SL-135-SA6-SB-4.0-5.0	14	SL-297-SA6-SS-0.0-0.5DUP	24		34	
5	SL-138-SA6-SB-4.0-5.0	15		25		35	
6	SL-138-SA6-SB-9.0-10.0	16		26		36	
7	SL-149-SA6-SS-0.0-0.5	17		27		37	
8	SL-297-SA6-SS-0.0-0.5	18		28		38	
9	SL-292-SA6-SS-0.0-0.5	19		29		39	
10	SL-298-SA6-SS-0.0-0.5	20		30		40	

Notes: _____

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE197
Matrix: SOIL Level (low/med): LOW

74X

Background Lab Sample ID: 6340796BKG Matrix Spike Lab Sample ID: 6340797MS Matrix Spike Duplicate Lab Sample ID: 6340798MSD
% Solids for Sample: 99.2
Batch Id(s): P19408D, P19426B, P19411G, P20408A

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		11183.5985		11496.0373		12878.8081		201.6129	195.7407	MG/KG	155		866		11			20	P
Antimony	121	1.2849		2.0337		1.7115		1.1744	1.2097	MG/KG	64	N	35	N	17		75 - 125	20	MS
Arsenic	75	8.2373		7.6593		7.1310		1.9574	2.0161	MG/KG	-30		-55		7			20	MS
Barium	137	75.1344		72.0130		84.7581		9.7870	10.0806	MG/KG	-32		95		16			20	MS
Beryllium	9	0.4182		1.0932		1.1829		0.7830	0.8065	MG/KG	86		95		8		75 - 125	20	MS
Boron		0.3593	U	178.0151		187.9923		201.6129	195.7407	MG/KG	88		96		5		84 - 115	20	P
Cadmium	111	2.3867		2.7345		3.0645		0.9787	1.0081	MG/KG	36	N	67	N	11		75 - 125	20	MS
Calcium		6818.9147		5612.6774		9066.9365		403.2258	391.4814	MG/KG	-299		574		47	*		20	P
Chromium	52	34.4086		51.4994		45.9274		9.7870	10.0806	MG/KG	175	N	114		11		75 - 125	20	MS
Cobalt	59	9.8214		54.3963		58.3669		48.9352	50.4032	MG/KG	91		96		7		75 - 125	20	MS
Copper	63	50.2880		67.9024		54.8185		9.7870	10.0806	MG/KG	180		45		21	*		20	MS
Iron		27817.6451		45528.3165		31246.0363		100.8065	97.8703	MG/KG	17569		3503		37	*		20	P
Lead	208	78.2834		125.4698		83.7298		2.9361	3.0242	MG/KG	1607		180		40	*		20	MS
Lithium		17.0742		115.3730		116.4324		100.8065	97.8703	MG/KG	98		102		1		82 - 114	20	P
Magnesium		4419.8249		4616.4677		4458.0870		201.6129	195.7407	MG/KG	98		20		3			20	P
Manganese		335.9400		381.7782		478.2513		50.4032	48.9352	MG/KG	91		291		22	*		20	P
Mercury		0.4130		0.5772		0.5430		0.1630	0.1671	MG/KG	101		78		6		65 - 135	20	CV
Molybdenum	98	5.6260		27.7169		16.3387		9.7870	10.0806	MG/KG	226	N	106		52	*	75 - 125	20	MS
Nickel	60	17.5000		24.6046		35.7661		9.7870	10.0806	MG/KG	73	N	181	N	37	*	75 - 125	20	MS
Phosphorus		517.5663		853.2964		587.1134		100.8065	97.8703	MG/KG	333		71		37	*		20	P
Potassium		2514.6868		3387.7591		3532.9099		1008.0645	978.7034	MG/KG	87		104		4		75 - 125	20	P
Selenium	78	0.3184	B	2.2667		2.2137		1.9574	2.0161	MG/KG	100		94		2		75 - 125	20	MS
Silver	107	0.1966		9.4582		10.1331		9.7870	10.0806	MG/KG	95		99		7		75 - 125	20	MS
Sodium		192.5942		1181.5282		1249.7543		1008.0645	978.7034	MG/KG	98		108		6		75 - 125	20	P
Strontium		30.5943		120.1512		130.7606		100.8065	97.8703	MG/KG	89		102		8		75 - 115	20	P
Thallium	203	0.1934		0.5471		0.5319		0.3915	0.4032	MG/KG	90		84		3		75 - 125	20	MS
Tin		4.7858	B	378.0433		381.6151		403.2258	391.4814	MG/KG	93		96		1		80 - 110	20	P
Titanium		705.5121		1027.2706		1004.8632		97.8703	97.8703	MG/KG	329		306		2			20	P
Vanadium	51	36.0023		40.7924		54.0726		9.7870	10.0806	MG/KG	49	N	179	N	28	*	75 - 125	20	MS
Zinc	66	795.8909		613.3534		729.1331		9.7870	10.0806	MG/KG	-1865		-662		17			20	MS
Zirconium		4.8786	B	99.2056		102.0494		100.8065	97.8703	MG/KG	94		99		3		75 - 125	20	P

RPD out
RPD
RPD
RPD

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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

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QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE197
Matrix: SOIL Level (low/med): LOW

CSXBL

Background Lab Sample ID: 6340796BKG
% Solids for Duplicate: 99.1
Batch ID(s): P19408D, P19426B, P19411G, P20408A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6340799DUP
% Solids for Sample: 99.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			11183.5985		10657.1078		5		P
Antimony	121		1.2849		2.2100		53	*	MS
Arsenic	75		8.2373		7.2522		13		MS
Barium	137		75.1344		84.7162		12		MS
Beryllium	9	0.1	0.4182		0.3877		8		MS
Boron			0.3593	U	0.3489	U			P
Cadmium	111		2.3867		2.4368		2		MS
Calcium			6818.9147		8287.0997		19		P
Chromium	52		34.4086		40.5940		16		MS
Cobalt	59		9.8214		10.3831		6		MS
Copper	63		50.2880		62.9459		22	*	MS
Iron			27817.6451		22313.3317		22	*	P
Lead	208		78.2834		143.9400		59	*	MS
Lithium			17.0742		16.4159		4		P
Magnesium			4419.8249		4262.5271		4		P
Manganese			335.9400		261.8913		25	*	P
Mercury		0.1	0.4130		0.2712		41	*	CV
Molybdenum	98		5.6260		22.2162		119	*	MS
Nickel	60		17.5000		18.0114		3		MS
Phosphorus			517.5663		522.1038		1		P
Potassium			2514.6868		2458.6345		2		P
Selenium	78		0.3184	B	0.2099	B	41		MS
Silver	107	0.1	0.1966		0.1021		63		MS
Sodium		99.8	192.5942		153.3557		23		P
Strontium			30.5943		27.2148		12		P
Thallium	203	0.1	0.1934		0.1581		20		MS
Tin			4.7858	B	4.0778	B	16		P
Titanium			705.5121		664.0867		6		P
Vanadium	51		36.0023		35.9801		0		MS
Zinc	66		795.8909		703.2219		12		MS
Zirconium			4.8786	B	4.0894	B	18		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE197
Matrix: SOIL Level (low/med): LOW

5/05

Background Lab Sample ID: 6340796BKG Serial Dilution Lab Sample ID: 6340796L
Batch ID(s): P19408D, P19426B, P20408A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		112050.7100		117261.5000		5		P
Antimony	121	6.6920		5.5000		18		MS
Arsenic	75	42.9000		44.1950		3		MS
Barium	137	391.3000		393.1000		0		MS
Beryllium	9	2.1780		2.1235	B	3		MS
Boron		3.6000	U	18.0000	U			P
Cadmium	111	12.4300		13.3800		8		MS
Calcium		68320.0700		73247.5000		7		P
Chromium	52	179.2000		172.7500		4		MS
Cobalt	59	51.1500		49.4950		3		MS
Copper	63	261.9000		270.9000		3		MS
Iron		55742.1100		57651.1500		3		P
Lead	208	407.7000		418.9500		3		MS
Lithium		171.0700		189.5500		11		P
Magnesium		44283.1100		47070.4000		6		P
Manganese		3365.8500		3495.8000		4		P
Molybdenum	98	29.3000		28.6700		2		MS
Nickel	60	91.1400		95.7500		5		MS
Phosphorus		5185.6000		5397.8500		4		P
Potassium		25195.1500		26800.7000		6		P
Selenium	78	1.6580	B	1.4500	U	100		MS
Silver	107	1.0240		1.1730	B	15		MS
Sodium		1929.6400		1956.5500	B	1		P
Strontium		306.5300		310.3500		1		P
Thallium	203	1.0070		0.8670	B	14		MS
Tin		47.9500	B	47.1000	B	2		P
Titanium		7208.6400		7324.1500		2		P
Vanadium	51	187.5000		191.0000		2		MS
Zinc	66	829.0000		720.5000		13	E	MS
Zirconium		48.8800	B	46.5000	B	5		P

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

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

CONCENTRATION QUALIFIERS: DE197 4212
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE210

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3050B	6010B	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3050B	6020	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3060A	7199	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8081A	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8082	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8151A	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8270C	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	3550B	8270C SIM	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	METHOD	300.0	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	METHOD	314.0	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358386	N	METHOD	7471A	III
27-Jul-2011	TB-072711	6358396	TB	5030B	8015M	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3060A	7199	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8081A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8082	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8151A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8270C	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	3550B	8270C SIM	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	METHOD	300.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	METHOD	314.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358381	N	METHOD	7471A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8081A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8082	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8151A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8270C	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	3550B	8270C SIM	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	METHOD	300.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	METHOD	314.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358382	MS	METHOD	7471A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8081A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8082	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8151A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8270C	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	3550B	8270C SIM	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358383	MSD	METHOD	7471A	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	3050B	6010B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	3050B	6020	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	3060A	7199	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	METHOD	300.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	METHOD	314.0	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5DUP	6358384	DUP	METHOD	7471A	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3050B	6010B	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3050B	6020	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3060A	7199	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8081A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8082	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8151A	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8270C	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	3550B	8270C SIM	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	METHOD	300.0	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	METHOD	314.0	III
27-Jul-2011	DUP09-SA6-QC-072711	6358387	FD	METHOD	7471A	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3050B	6010B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3050B	6020	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3060A	7199	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8015B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8015M	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8082	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8270C	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	3550B	8270C SIM	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	5035	8015M	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	300.0	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	314.0	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	6850	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	7471A	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	8015B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358388	N	METHOD	8015M	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3050B	6010B	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3050B	6020	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3060A	7199	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8015B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8015M	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8082	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8270C	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	3550B	8270C SIM	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	5035	8015M	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	300.0	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	314.0	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	7471A	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	8015B	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358389	N	METHOD	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3050B	6010B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3050B	6020	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3060A	7199	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8015B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8081A	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8082	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8151A	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8270C	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	3550B	8270C SIM	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	300.0	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	314.0	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	7471A	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	8015B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358385	N	METHOD	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MSD	P358385M320038A	MSD	3550B	8015M	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MSD	P358385M320653A	MSD	3550B	8015B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MS	P358385R320014A	MS	3550B	8015M	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5MS	P358385R320058A	MS	3550B	8015B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3050B	6010B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3050B	6020	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3060A	7199	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8015B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8015M	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8082	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8270C	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	3550B	8270C SIM	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	5035	8015M	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	300.0	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	314.0	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	7471A	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	8015B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358391	N	METHOD	8015M	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3050B	6010B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3050B	6020	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3060A	7199	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8015B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8015M	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8082	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8270C	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	3550B	8270C SIM	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	5035	8015M	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	300.0	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	314.0	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	7471A	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	8015B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358392	N	METHOD	8015M	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3050B	6010B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3050B	6020	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3060A	7199	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8015B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8015M	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8082	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8270C	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	3550B	8270C SIM	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	5035	8015M	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	300.0	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	314.0	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	7471A	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	8015B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358390	N	METHOD	8015M	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3050B	6010B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3050B	6020	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3060A	7199	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8015B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8015M	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8082	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8270C	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	3550B	8270C SIM	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	5035	8015M	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	300.0	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	314.0	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	7471A	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	8015B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358393	N	METHOD	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3005A	6010B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3020A	6020	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8015B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8082	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8270C	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3510C	8270C SIM	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	3520C	1625C	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	5030B	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	5030B	8260B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	5030B	8260B SIM	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	8330	8330A	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	300.0	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	314.0	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	7199	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	8015B	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	Gen Prep	8015M	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	METHOD	7470A	III
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	METHOD	8315A	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	EB-SA6-SB-072711	6358397	EB	METHOD	9012B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3050B	6010B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3050B	6020	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3060A	7199	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3546	1625C	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8082	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8270C	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	3550B	8270C SIM	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	5035	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	8330	8330A	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	7471A	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	8315A	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358394	N	METHOD	9012B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0DU	P358394D270527B	DUP	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0DU	P358394D270843B	DUP	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0MS	P358394R270541B	MS	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0MS	P358394R270929B	MS	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3050B	6010B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3050B	6020	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3546	1625C	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8082	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8270C	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	3550B	8270C SIM	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	5035	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	8330	8330A	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	300.0	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	314.0	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	7471A	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	8015B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	8015M	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	8315A	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358395	N	METHOD	9012B	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-9.0-10.0 *Collected:* 7/27/2011 2:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.92	MDL	1.7	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0035	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
SODIUM	0.295	J	0.0647	MDL	1.00	PQL	mg/L	J	Z
STRONTIUM	0.00026	J	0.00022	MDL	0.0050	PQL	mg/L	J	Z
Zirconium	0.0049	J	0.0042	MDL	0.0500	PQL	mg/L	U	B, B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2850		11.6	MDL	51.4	PQL	mg/Kg	J	Q
SODIUM	98.5	J	6.12	MDL	103	PQL	mg/Kg	U	F
TIN	3.96	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.79	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3300		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	94.4	J	6.05	MDL	102	PQL	mg/Kg	U	F
TIN	3.02	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	3.31	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-017-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.83	J	0.360	MDL	5.00	PQL	mg/Kg	J	Z
POTASSIUM	2520		11.3	MDL	50.0	PQL	mg/Kg	J	Q
SODIUM	124		5.96	MDL	100	PQL	mg/Kg	U	F
TIN	2.97	J	0.320	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.77	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.35	J	0.354	MDL	4.92	PQL	mg/Kg	J	Z
POTASSIUM	2670		11.1	MDL	49.2	PQL	mg/Kg	J	Q
SODIUM	110		5.85	MDL	98.3	PQL	mg/Kg	U	F
TIN	3.31	J	0.315	MDL	9.83	PQL	mg/Kg	U	B
Zirconium	2.85	J	0.452	MDL	4.92	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3330		11.9	MDL	52.6	PQL	mg/Kg	J	Q
TIN	3.02	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.37	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	4300		12.9	MDL	56.9	PQL	mg/Kg	J	Q
TIN	3.08	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-076-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3120		11.9	MDL	52.6	PQL	mg/Kg	J	Q
TIN	3.71	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.96	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-089-SA6-SB-4.0-5.0 **Collected:** 7/27/2011 9:50:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3270		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.87	J	0.335	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.86	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0 **Collected:** 7/27/2011 10:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3940		12.5	MDL	55.1	PQL	mg/Kg	J	Q
TIN	2.92	J	0.353	MDL	11.0	PQL	mg/Kg	U	B

Sample ID: SL-117-SA6-SB-2.0-3.0 **Collected:** 7/27/2011 12:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.25	J	0.365	MDL	5.07	PQL	mg/Kg	J	Z
POTASSIUM	2870		11.5	MDL	50.7	PQL	mg/Kg	J	Q
TIN	2.92	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.50	J	0.466	MDL	5.07	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 **Collected:** 7/27/2011 2:31:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2890		11.2	MDL	49.4	PQL	mg/Kg	J	Q
SODIUM	108		5.88	MDL	98.8	PQL	mg/Kg	U	F
TIN	2.71	J	0.316	MDL	9.88	PQL	mg/Kg	U	B
Zirconium	3.92	J	0.454	MDL	4.94	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-9.0-10.0 **Collected:** 7/27/2011 2:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3120		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	3.29	J	0.354	MDL	11.1	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0725	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.89		0.0514	MDL	0.103	PQL	mg/Kg	J	FD

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.8		0.109	MDL	0.411	PQL	mg/Kg	J	E

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.370		0.0761	MDL	0.206	PQL	mg/Kg	J	Q, FD
ARSENIC	5.52		0.0822	MDL	0.411	PQL	mg/Kg	J	FD
CADMIUM	1.06		0.0452	MDL	0.103	PQL	mg/Kg	J	FD
CHROMIUM	24.5		0.123	MDL	0.411	PQL	mg/Kg	J	A
COPPER	57.7		0.0822	MDL	0.411	PQL	mg/Kg	J	E, FD
LEAD	59.4		0.0105	MDL	0.206	PQL	mg/Kg	J	E, FD
NICKEL	31.5		0.103	MDL	0.411	PQL	mg/Kg	J	Q, FD
SILVER	0.506		0.0146	MDL	0.103	PQL	mg/Kg	J	E
VANADIUM	34.1		0.0226	MDL	0.103	PQL	mg/Kg	J	A

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0573	MDL	0.395	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.576		0.0494	MDL	0.0988	PQL	mg/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.4		0.105	MDL	0.395	PQL	mg/Kg	J	E

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0731	MDL	0.198	PQL	mg/Kg	J	Z, Q, FD
ARSENIC	3.12		0.0791	MDL	0.395	PQL	mg/Kg	J	FD
CADMIUM	0.613		0.0435	MDL	0.0988	PQL	mg/Kg	J	FD
CHROMIUM	18.4		0.119	MDL	0.395	PQL	mg/Kg	J	A
COPPER	12.2		0.0791	MDL	0.395	PQL	mg/Kg	J	E, FD
LEAD	27.3		0.0101	MDL	0.198	PQL	mg/Kg	J	E, FD
NICKEL	13.7		0.0988	MDL	0.395	PQL	mg/Kg	J	Q, FD
SILVER	0.513		0.0140	MDL	0.0988	PQL	mg/Kg	J	E
VANADIUM	30.0		0.0217	MDL	0.0988	PQL	mg/Kg	J	A

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0581	MDL	0.400	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	75.6		0.106	MDL	0.400	PQL	mg/Kg	J	E

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0741	U	0.0741	MDL	0.200	PQL	mg/Kg	UJ	Q
CHROMIUM	30.2		0.120	MDL	0.400	PQL	mg/Kg	J	A
COPPER	16.2		0.0801	MDL	0.400	PQL	mg/Kg	J	E
LEAD	13.3		0.0102	MDL	0.200	PQL	mg/Kg	J	E
NICKEL	9.96		0.100	MDL	0.400	PQL	mg/Kg	J	Q
SILVER	0.0768	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, E
VANADIUM	28.0		0.0220	MDL	0.100	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	71.9		0.108	MDL	0.409	PQL	mg/Kg	J	E

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0757	MDL	0.204	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.3		0.123	MDL	0.409	PQL	mg/Kg	J	A
COPPER	13.5		0.0818	MDL	0.409	PQL	mg/Kg	J	E
LEAD	34.3		0.0104	MDL	0.204	PQL	mg/Kg	J	E
NICKEL	11.3		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.107		0.0145	MDL	0.102	PQL	mg/Kg	J	E
VANADIUM	31.2		0.0225	MDL	0.102	PQL	mg/Kg	J	A

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.151	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	86.9		0.114	MDL	0.429	PQL	mg/Kg	J	E

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0794	U	0.0794	MDL	0.215	PQL	mg/Kg	UJ	Q
CHROMIUM	18.0		0.129	MDL	0.429	PQL	mg/Kg	J	A
COPPER	9.76		0.0858	MDL	0.429	PQL	mg/Kg	J	E
LEAD	5.46		0.0109	MDL	0.215	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 8:35:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	12.0		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0405	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, E
VANADIUM	39.8		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.149	J	0.0660	MDL	0.455	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	113		0.121	MDL	0.455	PQL	mg/Kg	J	E

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0842	MDL	0.228	PQL	mg/Kg	J	Z, Q
CHROMIUM	27.7		0.137	MDL	0.455	PQL	mg/Kg	J	A
COPPER	13.8		0.0910	MDL	0.455	PQL	mg/Kg	J	E
LEAD	7.98		0.0116	MDL	0.228	PQL	mg/Kg	J	E
NICKEL	17.7		0.114	MDL	0.455	PQL	mg/Kg	J	Q
SILVER	0.0308	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, E
VANADIUM	56.8		0.0250	MDL	0.114	PQL	mg/Kg	J	A

Sample ID: SL-076-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 11:05:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0901	J	0.0598	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-076-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 11:05:00 *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	99.0		0.109	MDL	0.413	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: SL-076-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 11:05:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0764	U	0.0764	MDL	0.206	PQL	mg/Kg	UJ	Q
CHROMIUM	20.3		0.124	MDL	0.413	PQL	mg/Kg	J	A
COPPER	29.1		0.0825	MDL	0.413	PQL	mg/Kg	J	E
LEAD	6.79		0.0105	MDL	0.206	PQL	mg/Kg	J	E
NICKEL	18.0		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0295	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, E
VANADIUM	39.3		0.0227	MDL	0.103	PQL	mg/Kg	J	A

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	83.5		0.112	MDL	0.423	PQL	mg/Kg	J	E

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0782	U	0.0782	MDL	0.211	PQL	mg/Kg	UJ	Q
CHROMIUM	18.3		0.127	MDL	0.423	PQL	mg/Kg	J	A
COPPER	9.46		0.0845	MDL	0.423	PQL	mg/Kg	J	E
LEAD	5.52		0.0108	MDL	0.211	PQL	mg/Kg	J	E
NICKEL	11.6		0.106	MDL	0.423	PQL	mg/Kg	J	Q
SILVER	0.0241	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, E
VANADIUM	38.1		0.0232	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.166	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.9		0.112	MDL	0.424	PQL	mg/Kg	J	E

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.108	J	0.0785	MDL	0.212	PQL	mg/Kg	J	Z, Q
CHROMIUM	20.4		0.127	MDL	0.424	PQL	mg/Kg	J	A
COPPER	11.9		0.0848	MDL	0.424	PQL	mg/Kg	J	E
LEAD	8.45		0.0108	MDL	0.212	PQL	mg/Kg	J	E
NICKEL	12.4		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0321	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, E
VANADIUM	43.2		0.0233	MDL	0.106	PQL	mg/Kg	J	A

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	69.7		0.110	MDL	0.413	PQL	mg/Kg	J	E

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.158	J	0.0765	MDL	0.207	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0626	J	0.0455	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	11.3		0.124	MDL	0.413	PQL	mg/Kg	J	A
COPPER	4.98		0.0827	MDL	0.413	PQL	mg/Kg	J	E
LEAD	3.37		0.0105	MDL	0.207	PQL	mg/Kg	J	E
NICKEL	6.82		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0147	U	0.0147	MDL	0.103	PQL	mg/Kg	UJ	E
VANADIUM	26.5		0.0227	MDL	0.103	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	80.2		0.108	MDL	0.407	PQL	mg/Kg	J	E

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.0753	MDL	0.203	PQL	mg/Kg	J	Z, Q
CHROMIUM	15.5		0.122	MDL	0.407	PQL	mg/Kg	J	A
COPPER	12.6		0.0814	MDL	0.407	PQL	mg/Kg	J	E
LEAD	6.21		0.0104	MDL	0.203	PQL	mg/Kg	J	E
NICKEL	11.2		0.102	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.0299	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, E
VANADIUM	40.0		0.0224	MDL	0.102	PQL	mg/Kg	J	A

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0951	J	0.0655	MDL	0.452	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	100		0.120	MDL	0.452	PQL	mg/Kg	J	E

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0835	U	0.0835	MDL	0.226	PQL	mg/Kg	UJ	Q
CHROMIUM	24.0		0.135	MDL	0.452	PQL	mg/Kg	J	A
COPPER	11.0		0.0903	MDL	0.452	PQL	mg/Kg	J	E
LEAD	6.83		0.0115	MDL	0.226	PQL	mg/Kg	J	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-179-SA5DN-SB-9.0-10.0 **Collected:** 7/27/2011 2:49:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	17.7		0.113	MDL	0.452	PQL	mg/Kg	J	Q
SILVER	0.0375	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z, E
VANADIUM	47.9		0.0248	MDL	0.113	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP09-SA6-QC-072711 **Collected:** 7/27/2011 8:28:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.46	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 8:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.59	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 7:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.72	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 **Collected:** 7/27/2011 8:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.76	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7470A **Matrix: AQ**

Sample ID: EB-SA6-SB-072711 **Collected:** 7/27/2011 1:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000029	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0528	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0573	J	0.0071	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0930	J	0.0069	MDL	0.0978	PQL	mg/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0198	J	0.0076	MDL	0.108	PQL	mg/Kg	U	F

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** REA ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0189	J	0.0073	MDL	0.104	PQL	mg/Kg	U	F

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0594	J	0.0071	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0085	J	0.0078	MDL	0.111	PQL	mg/Kg	U	B, F

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

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

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.30		0.482	MDL	0.964	PQL	ng/L	J	S

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

Sample ID: SL-017-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-089-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 10:00:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.93	J	0.89	MDL	2.7	PQL	mg/Kg	J	Z

Method Category: SVOA **Method:** 8081A **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 25

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	140		4.2	MDL	22	PQL	ug/Kg	J	FD

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	4.5	U	4.5	MDL	4.5	PQL	ug/Kg	UJ	FD
Chlordane	4.1	U	4.1	MDL	17	PQL	ug/Kg	UJ	FD

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* DL-BASE/NEUTRAL *Dilution:* 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDT	66		3.4	MDL	17	PQL	ug/Kg	J	FD

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8081A **Matrix:** SO

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	13		0.68	MDL	3.5	PQL	ug/Kg	J	FD
Chlordane	27	J	8.2	MDL	35	PQL	ug/Kg	J	Z, FD

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1000

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	4300		340	MDL	1700	PQL	ug/Kg	J	FD
AROCLOR 1260	400	U	400	MDL	1700	PQL	ug/Kg	UJ	FD
Aroclor 5460	9000		1000	MDL	3400	PQL	ug/Kg	J	FD

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.34	U	0.34	MDL	1.7	PQL	ug/Kg	UJ	FD
AROCLOR 1260	14		0.40	MDL	1.7	PQL	ug/Kg	J	FD
Aroclor 5460	17		1.0	MDL	3.4	PQL	ug/Kg	J	FD

Sample ID: SL-017-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 9:14:00 *Analysis Type:* RES *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	33	J	10	MDL	34	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.0	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.3	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-4.0-5.0 *Collected:* 7/27/2011 2:31:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.6	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8151A **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 *Collected:* 7/27/2011 8:28:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	3.4		0.63	MDL	1.7	PQL	ug/Kg	J	FD

Sample ID: SL-009-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DB	1.2	J	0.64	MDL	1.7	PQL	ug/Kg	J	Z, Q, Q, FD
DINOSEB	0.82	U	0.82	MDL	2.5	PQL	ug/Kg	R	Q, Q

Sample ID: SL-028-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPP	150	J	76	MDL	250	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	16	PQL	ug/L	UJ	E

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	22	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	23	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
Di-n-butylphthalate	24	J	17	MDL	170	PQL	ug/Kg	J	Z, FD
PYRENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES-ACID ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	Q
3,3'-DICHLOROBENZIDINE	100	U	100	MDL	340	PQL	ug/Kg	R	Q, Q
3-NITROANILINE	34	U	34	MDL	170	PQL	ug/Kg	UJ	Q
4-CHLOROANILINE	69	U	69	MDL	170	PQL	ug/Kg	UJ	Q
4-NITROANILINE	69	U	69	MDL	170	PQL	ug/Kg	UJ	Q
ANILINE	170	U	170	MDL	510	PQL	ug/Kg	R	Q
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
Di-n-butylphthalate	17	U	17	MDL	170	PQL	ug/Kg	UJ	FD

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	23	J	17	MDL	340	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 8:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	29	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	27	J	18	MDL	180	PQL	ug/Kg	J	Z
CHRYSENE	35	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	55	J	18	MDL	180	PQL	ug/Kg	J	Z
PHENANTHRENE	41	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	65	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	20	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	27	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	24	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	22	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	22	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	37	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	23	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	30	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 *Collected:* 7/27/2011 2:31:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	27	J	17	MDL	350	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: EB-SA6-SB-072711 *Collected:* 7/27/2011 1:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.062	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Diethylphthalate	0.080	J	0.053	MDL	1.1	PQL	ug/L	J	Z
Dimethylphthalate	0.053	U	0.053	MDL	1.1	PQL	ug/L	UJ	L
Di-n-butylphthalate	0.50	J	0.053	MDL	1.1	PQL	ug/L	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.1	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	4.8	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	5.5	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	4.3	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	17		3.4	MDL	8.6	PQL	ug/Kg	J	FD
INDENO(1,2,3-CD)PYRENE	3.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	5.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.7	U	1.7	MDL	8.6	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	6.3	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	3.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	22		3.4	MDL	8.6	PQL	ug/Kg	J	FD
FLUORANTHENE	4.6	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z, FD
INDENO(1,2,3-CD)PYRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	FD
PHENANTHRENE	3.4	U	3.4	MDL	8.6	PQL	ug/Kg	UJ	FD
PYRENE	6.1	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-017-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 9:14:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	3.2	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
ANTHRACENE	7.1	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	6.2	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z
PHENANTHRENE	4.5	J	3.4	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-028-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 7:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.62	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Butylbenzylphthalate	7.5	J	6.1	MDL	18	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-028-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 7:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Diethylphthalate	7.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Dimethylphthalate	8.4	J	6.1	MDL	18	PQL	ug/Kg	J	Z
Di-n-butylphthalate	9.7	J	6.1	MDL	18	PQL	ug/Kg	J	Z
NAPHTHALENE	0.76	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 8:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.83	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	0.82	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 *Collected:* 7/27/2011 8:45:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.0	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.79	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-076-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.79	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	0.84	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.4	J	6.5	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	0.77	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 9:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	7.9	J	1.8	MDL	9.2	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.2	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	6.1	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	4.7	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
FLUORENE	4.1	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	4.9	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
PHENANTHRENE	8.3	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z
PYRENE	8.5	J	3.7	MDL	9.2	PQL	ug/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.46	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	0.96	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.4	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.6	J	0.70	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-4.0-5.0 ***Collected:*** 7/27/2011 2:31:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.5	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	4.6	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z
CHRYSENE	4.9	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z
FLUORANTHENE	5.3	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z
PYRENE	5.5	J	3.5	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-179-SA5DN-SB-9.0-10.0 ***Collected:*** 7/27/2011 2:49:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	6.8	MDL	21	PQL	ug/Kg	J	Z
FLUORENE	1.1	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory:** LL

EDD Filename: PrepDE210_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8330A **Matrix:** SO

Sample ID: SL-179-SA5DN-SB-4.0-5.0 **Collected:** 7/27/2011 2:31:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	830	U	830	MDL	2500	PQL	ug/Kg	UJ	L

Sample ID: SL-179-SA5DN-SB-9.0-10.0 **Collected:** 7/27/2011 2:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	910	U	910	MDL	2700	PQL	ug/Kg	UJ	L

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-017-SA6-SS-0.0-0.5 **Collected:** 7/27/2011 9:14:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
O-TERPHENYL	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S
p-Terphenyl	1.5	U	1.5	MDL	3.6	PQL	mg/Kg	R	S

Method Category: VOA

Method: 8260B **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 **Collected:** 7/27/2011 1:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-Chloro-1,1,1-trifluoroethane	2	U	2	MDL	5	PQL	ug/L	UJ	L

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: PrepDE210_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE210

Method Blank Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21548DB220528	8/5/2011 5:28:00 AM	BORON Zirconium	0.0024 mg/L 0.0069 mg/L	EB-SA6-SB-072711

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-072711(REA2)	BORON	0.0035 mg/L	0.0035U mg/L
EB-SA6-SB-072711(REA2)	Zirconium	0.0049 mg/L	0.0049U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21408DB222152	8/4/2011 9:52:00 PM	ALUMINUM BORON CALCIUM IRON MANGANESE PHOSPHORUS STRONTIUM TIN	8.06 mg/Kg 0.427 mg/Kg 6.22 mg/Kg 2.83 mg/Kg 0.0451 mg/Kg 1.22 mg/Kg 0.0333 mg/Kg 1.70 mg/Kg	DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA6-QC-072711(RES)	TIN	3.96 mg/Kg	3.96U mg/Kg
SL-009-SA6-SS-0.0-0.5(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-017-SA6-SS-0.0-0.5(RES)	TIN	2.97 mg/Kg	2.97U mg/Kg
SL-028-SA6-SS-0.0-0.5(RES)	TIN	3.31 mg/Kg	3.31U mg/Kg
SL-069-SA6-SB-4.0-5.0(RES)	TIN	3.02 mg/Kg	3.02U mg/Kg
SL-069-SA6-SB-9.0-10.0(RES)	TIN	3.08 mg/Kg	3.08U mg/Kg
SL-076-SA6-SB-2.0-3.0(RES)	TIN	3.71 mg/Kg	3.71U mg/Kg
SL-089-SA6-SB-4.0-5.0(RES)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-089-SA6-SB-9.0-10.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-117-SA6-SB-2.0-3.0(RES)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-179-SA5DN-SB-4.0-5.0(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	TIN	3.29 mg/Kg	3.29U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21426AB220423A	8/5/2011 4:23:00 AM	VANADIUM	0.0358 mg/Kg	DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0

Method: 7470A
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21013CB220815	8/1/2011 8:15:00 AM	MERCURY	0.00011 mg/L	EB-SA6-SB-072711

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-072711(RES)	MERCURY	0.000029 mg/L	0.000029U mg/L

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-017-SA6-SS-0.0-0.5MS SL-017-SA6-SS-0.0-0.5MSD (SL-017-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL	21	23	59.00-109.00	-	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-017-SA6-SS-0.0-0.5MS SL-017-SA6-SS-0.0-0.5MSD (SL-017-SA6-SS-0.0-0.5)	EFH (C12-C14)	0	0	49.00-123.00	-	EFH (C12-C14)	No Qual, Diluted Out
	EFH (C15-C20)	0	0	49.00-123.00	-	EFH (C15-C20)	
	EFH (C21-C30)	-6272	-6258	49.00-123.00	-	EFH (C21-C30)	
	EFH (C30-C40)	-38230	-44001	49.00-123.00	-	EFH (C30-C40)	
	EFH (C8-C11)	0	0	49.00-123.00	-	EFH (C8-C11)	

Method: 8081A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	ENDOSULFAN II	529	3517	28.00-154.00	148 (50.00)	ENDOSULFAN II	No Qual, Diluted Out
	ENDRIN ALDEHYDE	500	2580	10.00-148.00	135 (35.00)	ENDRIN ALDEHYDE	
	HEPTACHLOR EPOXIDE	1227	15336	13.00-157.00	170 (50.00)	HEPTACHLOR EPOXIDE	
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	4,4'-DDD	0	0	16.00-163.00	-	4,4'-DDD	No Qual Diluted Out
	4,4'-DDE	-62	36352	16.00-161.00	181 (50.00)	4,4'-DDE	
	4,4'-DDT	-191	62732	10.00-176.00	156 (50.00)	4,4'-DDT	
	ALDRIN	0	0	16.00-126.00	-	ALDRIN	
	ALPHA-BHC	0	0	10.00-129.00	-	ALPHA-BHC	
	BETA-BHC	0	0	14.00-147.00	-	BETA-BHC	
	DELTA-BHC	0	0	23.00-140.00	-	DELTA-BHC	
	DIELDRIN	0	21726	19.00-154.00	200 (50.00)	DIELDRIN	
	ENDOSULFAN I	0	0	16.00-137.00	-	ENDOSULFAN I	
	ENDOSULFAN SULFATE	0	0	21.00-160.00	-	ENDOSULFAN SULFATE	
	ENDRIN	519	0	11.00-149.00	200 (50.00)	ENDRIN	
	ENDRIN KETONE	0	0	22.00-165.00	-	ENDRIN KETONE	
	gamma-BHC (Lindane)	0	-	10.00-140.00	200 (50.00)	gamma-BHC (Lindane)	
	HEPTACHLOR	0	312	13.00-126.00	200 (50.00)	HEPTACHLOR	
	METHOXYCHLOR	0	0	32.00-147.00	-	METHOXYCHLOR	

Method: 8151A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	DINOSEB	9	0	10.00-46.00	200 (35.00)	DINOSEB	J(all detects) R(all non-detects)
SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	2,4-DB	-	1	10.00-201.00	157 (50.00)	2,4-DB	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **6020**
Matrix: **SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MSD (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	NICKEL	-	127	75.00-125.00	-	NICKEL	J(all detects)
SL-009-SA6-SS-0.0-0.5MS **SL-009-SA6-SS-0.0-0.5MSD** (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	ANTIMONY ZINC	28 -	29 14	75.00-125.00 75.00-125.00	- -	ANTIMONY ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x Sb post spike= 88%
SL-009-SA6-SS-0.0-0.5MS **SL-009-SA6-SS-0.0-0.5MSD** (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	LEAD	231	30	75.00-125.00	-	LEAD	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS **SL-009-SA6-SS-0.0-0.5MSD** (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	BARIUM	37	297	75.00-125.00	22 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	ALUMINUM CALCIUM	548 193	367 -	75.00-125.00 75.00-125.00	- -	ALUMINUM CALCIUM	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	IRON MAGNESIUM MANGANESE	-1613 43 -8	-1628 -69 -34	75.00-125.00 75.00-125.00 75.00-125.00	- - -	IRON MAGNESIUM MANGANESE	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	PHOSPHORUS POTASSIUM TITANIUM	59 - -	30 70 62	75.00-125.00 75.00-125.00 75.00-125.00	- - -	PHOSPHORUS POTASSIUM TITANIUM	J(all detects) UJ(all non-detects) P, Ti, No Qual, >4x

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	BIS(2-ETHYLHEXYL)PHTHALAT Dimethylphthalate Di-n-butylphthalate FLUORANTHENE NAPHTHALENE	312 - 159 169 -	578 139 199 157 106	39.00-167.00 74.00-118.00 65.00-148.00 51.00-149.00 61.00-102.00	60 (30.00) - - - -	BIS(2-ETHYLHEXYL)PHTHALA Dimethylphthalate Di-n-butylphthalate FLUORANTHENE NAPHTHALENE	No Qual, Diluted Out
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	BENZO(K)FLUORANTHENE	43	36	57.00-153.00	-	BENZO(K)FLUORANTHENE	No Qual Diluted Out

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

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

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	HEXACHLOROCYCLOPENTADI	-	-	10.00-153.00	84 (30.00)	HEXACHLOROCYCLOPENTAD	J(all detects)
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	3,3'-DICHLOROBENZIDINE ANILINE BENZIDINE	0 0 0	10 - 0	28.00-109.00 18.00-116.00 35.00-141.00	200 (30.00) 200 (30.00) -	3,3'-DICHLOROBENZIDINE ANILINE BENZIDINE	J(all detects) R(all non-detects)
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	2,4-DINITROPHENOL 3-NITROANILINE 4-CHLOROANILINE 4-NITROANILINE	- 14 10 20	17 56 - -	20.00-143.00 59.00-122.00 13.00-107.00 41.00-109.00	31 (30.00) 118 (30.00) 96 (30.00) 81 (30.00)	2,4-DINITROPHENOL 3-NITROANILINE 4-CHLOROANILINE 4-NITROANILINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA6-SS-0.0-0.5DUP (DUP09-SA6-QC-072711 SL -009-SA6-SS-0.0-0.5 SL -017-SA6-SS-0.0-0.5 SL -028-SA6-SS-0.0-0.5 SL -069-SA6-SB-4.0-5.0 SL -069-SA6-SB-9.0-10.0 SL -076-SA6-SB-2.0-3.0 SL -089-SA6-SB-4.0-5.0 SL -089-SA6-SB-9.0-10.0 SL -117-SA6-SB-2.0-3.0)	FLUORIDE	200	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA6-SS-0.0-0.5DUP (DUP09-SA6-QC-072711 SL -009-SA6-SS-0.0-0.5 SL -017-SA6-SS-0.0-0.5 SL -028-SA6-SS-0.0-0.5 SL -069-SA6-SB-4.0-5.0 SL -069-SA6-SB-9.0-10.0 SL -076-SA6-SB-2.0-3.0 SL -089-SA6-SB-4.0-5.0 SL -089-SA6-SB-9.0-10.0 SL -117-SA6-SB-2.0-3.0 SL -179-SA5DN-SB-4.0-5.0 SL -179-SA5DN-SB-9.0-10.0)	COPPER	26	20.00	J(all detects) UJ(all non-detects)
	LEAD	196	20.00	
	SILVER	24	20.00	

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12106AQ242049A P12106AY242131A (EB-SA6-SB-072711)	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	110 110 133	- 110 133	76.00-109.00 69.00-107.00 80.00-120.00	- - -	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	J (all detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WALCSQ262148 (EB-SA6-SB-072711)	ACENAPHTHENE FLUORENE	116 116	- -	74.00-109.00 75.00-114.00	- -	ACENAPHTHENE FLUORENE	J(all detects)
P0WALCSQ262148 P0WALCSY262221 (EB-SA6-SB-072711)	Dimethylphthalate	26	30	40.00-119.00	-	Dimethylphthalate	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WBLCSQ260445 P0WBLCSY260510 (EB-SA6-SB-072711)	2,4,5-TRICHLOROPHENOL 4-BROMOPHENYL-PHENYLETH	113 -	- 120	79.00-107.00 75.00-115.00	- -	2,4,5-TRICHLOROPHENOL 4-BROMOPHENYL-PHENYLET	J(all detects)
P0WBLCSY260510 (EB-SA6-SB-072711)	BENZOIC ACID	-	-	10.00-69.00	33 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCS1Y49Y211348A (EB-SA6-SB-072711)	2-Chloro-1,1,1-trifluoroethane	-	75	77.00-120.00	-	2-Chloro-1,1,1-trifluoroethane	J(all detects) UJ(all non-detects)

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12186AQ241949A (SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	Nitroglycerin	79	-	80.00-120.00	-	Nitroglycerin	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21426AQ220426A (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	ANTIMONY	62	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21408DQ222155 (DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0)	ALUMINUM TITANIUM	134 161	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE210 Laboratory: LL

EDD Filename: DE210_v2. eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-072711	N-Nitrosodimethylamine-d6	171	50.00-150.00	All Target Analytes	J(all detects)

Method: 8015B
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-017-SA6-SS-0.0 -0.5	n-Triacontane-d62	0	50.00-150.00	All Target Analytes	J(all detects) R(all non-detects)

Method: 8081A
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
DUP09-SA6-QC-072711	DECACHLOROBIPHENYL	0	20.00-120.00	All Target Analytes	No Qual, Diluted Out
SL-009-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL	135	20.00-120.00	All Target Analytes	No Qual, Diluted Out

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-017-SA6-SS-0.0 -0.5	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	40 49	45.00-120.00 53.00-139.00	All Target Analytes	No Qual, Diluted Out

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-028-SA6-SS-0.0 -0.5	Terphenyl-d14	140	45.00-135.00	No Affected Compounds	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
MOISTURE	2.7	2.7	0		No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
ALUMINUM	12100	10700	12	50.00	No Qualifiers Applied
BORON	6.21	5.76	8	50.00	
CALCIUM	3490	4490	25	50.00	
IRON	18400	18400	0	50.00	
LITHIUM	20.9	17.7	17	50.00	
MAGNESIUM	4010	3530	13	50.00	
MANGANESE	298	294	1	50.00	
PHOSPHORUS	464	472	2	50.00	
POTASSIUM	3300	2850	15	50.00	
SODIUM	94.4	98.5	4	50.00	
STRONTIUM	18.9	20.0	6	50.00	
TIN	3.02	3.96	27	50.00	
TITANIUM	1030	884	15	50.00	
Zirconium	3.31	2.79	17	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
BARIUM	97.4	98.8	1	50.00	No Qualifiers Applied
BERYLLIUM	0.419	0.359	15	50.00	
CHROMIUM	18.4	24.5	28	50.00	
COBALT	5.01	6.58	27	50.00	
SELENIUM	0.113	0.0725	44	50.00	
SILVER	0.513	0.506	1	50.00	
THALLIUM	0.222	0.187	17	50.00	
VANADIUM	30.0	34.1	13	50.00	
ZINC	115	172	40	50.00	
ANTIMONY	0.123	0.370	100	50.00	J(all detects)
ARSENIC	3.12	5.52	56	50.00	
CADMIUM	0.613	1.06	53	50.00	
COPPER	12.2	57.7	130	50.00	
LEAD	27.3	59.4	74	50.00	
MOLYBDENUM	0.576	3.89	148	50.00	
NICKEL	13.7	31.5	79	50.00	

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
HEXAVALENT CHROMIUM	0.59	0.46	25	50.00	No Qualifiers Applied

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
MERCURY	0.0573	0.0528	8	50.00	No Qualifiers Applied

Method: 8081A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
4,4'-DDE	13	4.5 U	200	50.00	J(all detects) UJ(all non-detects)
4,4'-DDT	66	140	72	50.00	
Chlordane	27	17 U	200	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
AROCLOR 1254	1.7 U	4300	200	50.00	J(all detects) UJ(all non-detects)
AROCLOR 1260	14	1700 U	200	50.00	
Aroclor 5460	17	9000	199	50.00	

Method: 8151A
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
2,4-DB	1.2	3.4	96	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
BENZO(A)ANTHRACENE	6.3	4.8	27	50.00	No Qualifiers Applied
ANTHRACENE	8.6 U	2.1	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	8.6 U	5.5	200	50.00	
BENZO(K)FLUORANTHENE	22	4.3	135	50.00	
FLUORANTHENE	4.6	17	115	50.00	
INDENO(1,2,3-CD)PYRENE	8.6 U	3.6	200	50.00	
PHENANTHRENE	8.6 U	5.6	200	50.00	

Method: 8270C
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
Di-n-butylphthalate	170 U	24	200	50.00	J(all detects) UJ(all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 9045M
Matrix: SO

Analyte	*Concentration (pH unit)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
PH	7.24	7.33	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	BORON	J	0.0035	0.0500	PQL	mg/L	J (all detects)
	SODIUM	J	0.295	1.00	PQL	mg/L	
	STRONTIUM	J	0.00026	0.0050	PQL	mg/L	
	Zirconium	J	0.0049	0.0500	PQL	mg/L	

Method: 7470A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	MERCURY	J	0.000029	0.00020	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.062	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.080	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.50	1.1	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-179-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.1	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	SODIUM	J	98.5	103	PQL	mg/Kg	J (all detects)
	TIN	J	3.96	10.3	PQL	mg/Kg	
	Zirconium	J	2.79	5.14	PQL	mg/Kg	
SL-009-SA6-SS-0.0-0.5	SODIUM	J	94.4	102	PQL	mg/Kg	J (all detects)
	TIN	J	3.02	10.2	PQL	mg/Kg	
	Zirconium	J	3.31	5.09	PQL	mg/Kg	
SL-017-SA6-SS-0.0-0.5	BORON	J	3.83	5.00	PQL	mg/Kg	J (all detects)
	TIN	J	2.97	10.0	PQL	mg/Kg	
	Zirconium	J	2.77	5.00	PQL	mg/Kg	
SL-028-SA6-SS-0.0-0.5	BORON	J	4.35	4.92	PQL	mg/Kg	J (all detects)
	TIN	J	3.31	9.83	PQL	mg/Kg	
	Zirconium	J	2.85	4.92	PQL	mg/Kg	
SL-069-SA6-SB-4.0-5.0	TIN	J	3.02	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.37	5.26	PQL	mg/Kg	
SL-069-SA6-SB-9.0-10.0	TIN	J	3.08	11.4	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA6-SB-2.0-3.0	TIN	J	3.71	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.96	5.26	PQL	mg/Kg	
SL-089-SA6-SB-4.0-5.0	TIN	J	2.87	10.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.86	5.23	PQL	mg/Kg	
SL-089-SA6-SB-9.0-10.0	TIN	J	2.92	11.0	PQL	mg/Kg	J (all detects)
SL-117-SA6-SB-2.0-3.0	BORON	J	3.25	5.07	PQL	mg/Kg	J (all detects)
	TIN	J	2.92	10.1	PQL	mg/Kg	
	Zirconium	J	2.50	5.07	PQL	mg/Kg	
SL-179-SA5DN-SB-4.0-5.0	TIN	J	2.71	9.88	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.92	4.94	PQL	mg/Kg	
SL-179-SA5DN-SB-9.0-10.0	TIN	J	3.29	11.1	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	SELENIUM	J	0.0725	0.411	PQL	mg/Kg	J (all detects)
SL-009-SA6-SS-0.0-0.5	ANTIMONY	J	0.123	0.198	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.395	PQL	mg/Kg	
SL-017-SA6-SS-0.0-0.5	SELENIUM	J	0.148	0.400	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0768	0.100	PQL	mg/Kg	
SL-028-SA6-SS-0.0-0.5	ANTIMONY	J	0.124	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.409	PQL	mg/Kg	
SL-069-SA6-SB-4.0-5.0	SELENIUM	J	0.151	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0405	0.107	PQL	mg/Kg	
SL-069-SA6-SB-9.0-10.0	ANTIMONY	J	0.101	0.228	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.149	0.455	PQL	mg/Kg	
	SILVER	J	0.0308	0.114	PQL	mg/Kg	
SL-076-SA6-SB-2.0-3.0	SELENIUM	J	0.0901	0.413	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0295	0.103	PQL	mg/Kg	
SL-089-SA6-SB-4.0-5.0	SELENIUM	J	0.113	0.423	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0241	0.106	PQL	mg/Kg	
SL-089-SA6-SB-9.0-10.0	ANTIMONY	J	0.108	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.424	PQL	mg/Kg	
	SILVER	J	0.0321	0.106	PQL	mg/Kg	
SL-117-SA6-SB-2.0-3.0	ANTIMONY	J	0.158	0.207	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0626	0.103	PQL	mg/Kg	
	SELENIUM	J	0.107	0.413	PQL	mg/Kg	
SL-179-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.169	0.203	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.191	0.407	PQL	mg/Kg	
	SILVER	J	0.0299	0.102	PQL	mg/Kg	
SL-179-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0951	0.452	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0375	0.113	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	HEXAVALENT CHROMIUM	J	0.46	1.0	PQL	mg/Kg	J (all detects)
SL-009-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.59	1.0	PQL	mg/Kg	J (all detects)
SL-028-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.72	1.0	PQL	mg/Kg	J (all detects)
SL-069-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.76	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	MERCURY	J	0.0528	0.101	PQL	mg/Kg	J (all detects)
SL-009-SA6-SS-0.0-0.5	MERCURY	J	0.0573	0.100	PQL	mg/Kg	J (all detects)
SL-017-SA6-SS-0.0-0.5	MERCURY	J	0.0930	0.0978	PQL	mg/Kg	J (all detects)
SL-069-SA6-SB-4.0-5.0	MERCURY	J	0.0198	0.108	PQL	mg/Kg	J (all detects)
SL-089-SA6-SB-4.0-5.0	MERCURY	J	0.0189	0.104	PQL	mg/Kg	J (all detects)
SL-179-SA5DN-SB-4.0-5.0	MERCURY	J	0.0594	0.102	PQL	mg/Kg	J (all detects)
SL-179-SA5DN-SB-9.0-10.0	MERCURY	J	0.0085	0.111	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-089-SA6-SB-9.0-10.0	EFH (C15-C20)	J	0.93	2.7	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA6-SS-0.0-0.5	Chlordane	J	27	35	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA6-SS-0.0-0.5	Aroclor 5460	J	33	34	PQL	ug/Kg	J (all detects)
SL-028-SA6-SS-0.0-0.5	Aroclor 5460	J	2.0	3.4	PQL	ug/Kg	J (all detects)
SL-117-SA6-SB-2.0-3.0	Aroclor 5460	J	2.3	3.4	PQL	ug/Kg	J (all detects)
SL-179-SA5DN-SB-4.0-5.0	AROCLOR 1260 Aroclor 5460	J J	1.6 2.6	1.8 3.4	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA6-SS-0.0-0.5	2,4-DB	J	1.2	1.7	PQL	ug/Kg	J (all detects)
SL-028-SA6-SS-0.0-0.5	MCPP	J	150	250	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	BENZO(B)FLUORANTHENE	J	22	170	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	23	170	PQL	ug/Kg	
	CHRYSENE	J	25	170	PQL	ug/Kg	
	Di-n-butylphthalate	J	24	170	PQL	ug/Kg	
	PYRENE	J	17	170	PQL	ug/Kg	
SL-017-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	38	170	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	23	340	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	19	170	PQL	ug/Kg	
SL-069-SA6-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	29	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	24	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	27	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	27	180	PQL	ug/Kg	
	CHRYSENE	J	35	180	PQL	ug/Kg	
	FLUORANTHENE	J	55	180	PQL	ug/Kg	
	PHENANTHRENE	J	41	180	PQL	ug/Kg	
	PYRENE	J	65	180	PQL	ug/Kg	
SL-069-SA6-SB-9.0-10.0	BENZO(A)PYRENE	J	20	190	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	27	190	PQL	ug/Kg	
	FLUORANTHENE	J	24	190	PQL	ug/Kg	
	PYRENE	J	22	190	PQL	ug/Kg	
SL-089-SA6-SB-9.0-10.0	BENZO(A)PYRENE	J	22	190	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	37	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	23	190	PQL	ug/Kg	
	PYRENE	J	30	190	PQL	ug/Kg	
SL-179-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	27	350	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA6-QC-072711	ANTHRACENE	J	2.1	8.6	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	4.8	8.6	PQL	ug/Kg	
	BENZO(A)PYRENE	J	5.5	8.6	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	4.3	8.6	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	3.6	8.6	PQL	ug/Kg	
	PHENANTHRENE	J	5.6	8.6	PQL	ug/Kg	
SL-009-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	6.3	8.6	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	3.6	8.6	PQL	ug/Kg	
	FLUORANTHENE	J	4.6	8.6	PQL	ug/Kg	
	PYRENE	J	6.1	8.6	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE210 **Laboratory: LL**

EDD Filename: DE210_v2. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	3.2	8.6	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	7.1	8.6	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	6.2	8.6	PQL	ug/Kg	
	PHENANTHRENE	J	4.5	8.6	PQL	ug/Kg	
SL-028-SA6-SS-0.0-0.5	ACENAPHTHYLENE	J	0.62	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	18	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.5	18	PQL	ug/Kg	
	Diethylphthalate	J	7.7	18	PQL	ug/Kg	
	Dimethylphthalate	J	8.4	18	PQL	ug/Kg	
	Di-n-butylphthalate	J	9.7	18	PQL	ug/Kg	
	NAPHTHALENE	J	0.76	1.7	PQL	ug/Kg	
SL-069-SA6-SB-4.0-5.0	BENZO(K)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	0.83	1.8	PQL	ug/Kg	
	NAPHTHALENE	J	0.82	1.8	PQL	ug/Kg	
SL-069-SA6-SB-9.0-10.0	ANTHRACENE	J	1.0	1.9	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.79	1.9	PQL	ug/Kg	
SL-076-SA6-SB-2.0-3.0	1-METHYLNAPHTHALENE	J	0.79	1.8	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	0.84	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.4	20	PQL	ug/Kg	
	NAPHTHALENE	J	0.77	1.8	PQL	ug/Kg	
SL-089-SA6-SB-4.0-5.0	ANTHRACENE	J	7.9	9.2	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	7.2	9.2	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	6.1	9.2	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.7	9.2	PQL	ug/Kg	
	FLUORENE	J	4.1	9.2	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	4.9	9.2	PQL	ug/Kg	
	PHENANTHRENE	J	8.3	9.2	PQL	ug/Kg	
	PYRENE	J	8.5	9.2	PQL	ug/Kg	
SL-089-SA6-SB-9.0-10.0	ACENAPHTHYLENE	J	0.46	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	FLUORENE	J	0.96	1.9	PQL	ug/Kg	
SL-117-SA6-SB-2.0-3.0	ANTHRACENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.6	1.7	PQL	ug/Kg	
SL-179-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	3.5	8.6	PQL	ug/Kg	J (all detects)
	BENZO(B)FLUORANTHENE	J	4.6	8.6	PQL	ug/Kg	
	CHRYSENE	J	4.9	8.6	PQL	ug/Kg	
	FLUORANTHENE	J	5.3	8.6	PQL	ug/Kg	
	PYRENE	J	5.5	8.6	PQL	ug/Kg	
SL-179-SA5DN-SB-9.0-10.0	BENZO(G,H,I)PERYLENE	J	1.8	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	21	PQL	ug/Kg	
	FLUORENE	J	1.1	1.9	PQL	ug/Kg	

LDC #: 26407H4 **VALIDATION COMPLETENESS WORKSHEET** Date: 10-21-11

SDG #: DE210 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CR

2nd Reviewer: MG

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	SW	D
VIII.	Laboratory Control Samples (LCS)	~~A~~	LCS
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=13

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

Validated Samples:

1	SL-009-SA6-SS-0.0-0.5	11	SL-179-SA5DN-SB-4.0-5.0	21		31	
2	SL-017-SA6-SS-0.0-0.5	12	SL-179-SA5DN-SB-9.0-10.0	22		32	
3	SL-028-SA6-SS-0.0-0.5	13	EB-SA6-SB-072711	23		33	
4	DUP09-SA6-QC-072711	14	SL-009-SA6-SS-0.0-0.5MS	24		34	
5	SL-069-SA6-SB-4.0-5.0	15	SL-009-SA6-SS-0.0-0.5MSD	25		35	
6	SL-069-SA6-SB-9.0-10.0	16	SL-009-SA6-SS-0.0-0.5DUP	26		36	
7	SL-076-SA6-SB-2.0-3.0	17		27		37	
8	SL-089-SA6-SB-4.0-5.0	18		28		38	
9	SL-089-SA6-SB-9.0-10.0	19		29		39	
10	SL-117-SA6-SB-2.0-3.0	20		30		40	

Notes: _____

LDC #: 26407H4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: AC
2nd Reviewer: MG

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 100x x MS:2xdil
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 3-12

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	No Quals													
Sn	1.8	0.9														

Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: 1-7, 9-12

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	12													
Hg	0.019	0.01	0.0085													

Sample Concentration units, unless otherwise noted: ug/L
Associated Samples: All Water

Analyte	Maximum ICB/CCB[a] (ug/L)	Action Limit	13													
Hg	0.097	0.485	0.029													
Zr	6.7	33.5	4.9													

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26407H4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: AR
2nd Reviewer: MG

METHOD: Trace Metals (EPA SW846 6010B/7000)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target analytes detected in the field blanks?
Blank units: ug/L **Associated sample units:** mg/Kg
Sampling date: 7/27/11 Soil factor applied 100x (Hg: 167x)
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification												
	13	Action Level	1	2	3	4	5	8	11	12				
B	3.5	1.75												
Na	295	147.5	94.4	124	110	98.5			108					
Zr	4.9	2.45												
Sr	0.26	0.13												
Hg	0.029	0.024215					0.020	0.019		0.0085				

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE210
Matrix: SOIL Level (low/med): LOW

>4X

Background Lab Sample ID: 6358381BKG Matrix Spike Lab Sample ID: 6358382MS Matrix Spike Duplicate Lab Sample ID: 6358383MSD
% Solids for Sample: 97.3
Batch Id(s): P21408D, P21426A, P21411B

Sb: J/UJ/A (PS=88%)

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum -		12073.9023		13168.2944		12807.2172		199.5630	199.5630	MG/KG	548		367		3			20	P
Antimony	121	0.1233	B	0.4607		0.4591		1.1859	1.1746	MG/KG	28	N	29	N	0		75 - 125	20	MS
Arsenic	75	3.1248		5.0360		5.0663		1.9764	1.9576	MG/KG	97		99		1		75 - 125	20	MS
Barium -	137	97.3990		101.0752		126.4229		9.8822	9.7881	MG/KG	37		297		22	*		20	MS
Beryllium	9	0.4194		1.1621		1.1278		0.7906	0.7830	MG/KG	94		90		3		75 - 125	20	MS
Boron		6.2133		200.7045		198.0992		199.5630	199.5630	MG/KG	97		96		1		84 - 115	20	P
Cadmium	111	0.6135		1.6665		1.6276		0.9882	0.9788	MG/KG	107		104		2		75 - 125	20	MS
Calcium -		3494.5570		4265.4427		3818.4177		399.1259	399.1259	MG/KG	193		81		11			20	P
Chromium	52	18.4481		26.9784		26.7606		9.8822	9.7881	MG/KG	86		85		1		75 - 125	20	MS
Cobalt	59	5.0142		53.1663		53.3255		49.4110	48.9404	MG/KG	97		99		0		75 - 125	20	MS
Copper	63	12.2164		22.7291		23.7067		9.8822	9.7881	MG/KG	106		117		4		75 - 125	20	MS
Iron -		18429.1107		16819.9922		16804.3106		99.7815	99.7815	MG/KG	-1613		-1628		0			20	P
Lead -	208	27.2946		34.1331		28.1897		2.9647	2.9364	MG/KG	231		30		19			20	MS
Lithium		20.9162		117.5037		117.4039		99.7815	99.7815	MG/KG	97		97		0		82 - 114	20	P
Magnesium		4009.8308		4095.5497		3872.3316		199.5630	199.5630	MG/KG	43		-69		6			20	P
Manganese		297.8977		293.7377		281.1692		49.8907	49.8907	MG/KG	-8		-34		4			20	P
Mercury		0.0573	B	0.2334		0.2492		0.1679	0.1673	MG/KG	105		115		7		65 - 135	20	CV
Molybdenum	98	0.5759		10.5562		10.4478		9.8822	9.7881	MG/KG	101		101		1		75 - 125	20	MS
Nickel	60	13.7027		23.3220		26.0950		9.8822	9.7881	MG/KG	97		127	N	11		75 - 125	20	MS
Phosphorus -		463.7021		522.3730		493.7966		99.7815	99.7815	MG/KG	59		30		6			20	P
Potassium		3298.9427		4143.2792		3992.5773		997.8148	997.8148	MG/KG	85		70	N	4		75 - 125	20	P
Selenium	78	0.1129	B	2.1444		2.0379		1.9764	1.9576	MG/KG	103		98		5		75 - 125	20	MS
Silver	107	0.5131		10.9119		10.4047		9.8822	9.7881	MG/KG	105		101		5		75 - 125	20	MS
Sodium		94.4237	B	1048.7642		1050.2849		997.8148	997.8148	MG/KG	96		96		0		75 - 125	20	P
Strontium		18.9208		118.8427		115.2227		99.7815	99.7815	MG/KG	100		97		3		75 - 115	20	P
Thallium	203	0.2223		0.5771		0.6012		0.3953	0.3915	MG/KG	90		97		4		75 - 125	20	MS
Tin		3.0212	B	357.4372		375.4238		399.1259	399.1259	MG/KG	89		93		5		80 - 110	20	P
Titanium -		1030.6045		1149.4587		1092.3348		99.7815	99.7815	MG/KG	119		62		5			20	P
Vanadium	51	29.9628		37.7698		40.4052		9.8822	9.7881	MG/KG	79		107		7		75 - 125	20	MS
Zinc -	66	115.2463		123.4683		116.6349		9.8822	9.7881	MG/KG	83		14		6			20	MS
Zirconium		3.3112	B	95.9948		97.5653		99.7815	99.7815	MG/KG	93		94		2		75 - 125	20	P

BRDout

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE210
Matrix: SOIL Level (low/med): LOW

<57

Background Lab Sample ID: 6358381BKG
% Solids for Duplicate: 97.2
Batch ID(s): P21408D, P21426A, P21411B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6358384DUP
% Solids for Sample: 97.3

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			12073.9023		11672.4583		3		P
Antimony	121		0.1233	B	0.1137	B	8		MS
Arsenic	75		3.1248		3.0380		3		MS
Barium	137		97.3990		83.3094		16		MS
Beryllium	9	0.1	0.4194		0.3881		8		MS
Boron		5.1	6.2133		6.1856		0		P
Cadmium	111		0.6135		0.5490		11		MS
Calcium			3494.5570		3655.0068		4		P
Chromium	52		18.4481		16.7626		10		MS
Cobalt	59		5.0142		4.4152		13		MS
Copper	63		12.2164		15.8972		26	*	MS
Iron			18429.1107		17322.6125		6		P
Lead	208		27.2946		2990.7503		196	*	MS
Lithium			20.9162		19.7872		6		P
Magnesium			4009.8308		3940.0339		2		P
Manganese			297.8977		257.0572		15		P
Mercury			0.0573	B	0.0636	B	10		CV
Molybdenum	98		0.5759		0.6960		19		MS
Nickel	60		13.7027		12.0822		13		MS
Phosphorus			463.7021		463.3869		0		P
Potassium			3298.9427		3179.7836		4		P
Selenium	78		0.1129	B	0.0966	B	16		MS
Silver	107		0.5131		0.6524		24	*	MS
Sodium			94.4237	B	86.5163	B	9		P
Strontium			18.9208		20.7908		9		P
Thallium	203	0.1	0.2223		0.1877		17		MS
Tin			3.0212	B	3.1326	B	4		P
Titanium			1030.6045		957.9731		7		P
Vanadium	51		29.9628		26.4748		12		MS
Zinc	66		115.2463		113.7718		1		MS
Zirconium			3.3112	B	3.1568	B	5		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE210 5719

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

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE210
Matrix: SOIL Level (low/med): LOW

5/05

Background Lab Sample ID: 6358381BKG Serial Dilution Lab Sample ID: 6358381L
Batch ID(s): P21408D, P21426A
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		118653.8600		121007.1000		2		P
Antimony	121	0.6237	B	1.8500	U	100		MS
Arsenic	75	15.8100		15.6000		1		MS
Barium	137	492.8000		496.8500		1		MS
Beryllium	9	2.1220		2.2560	B	6		MS
Boron		61.0600		78.6000	B	29		P
Cadmium	111	3.1040		2.9760		4		MS
Calcium		34342.0600		35624.9500		4		P
Chromium	52	93.3400		105.5500		13	E	MS
Cobalt	59	25.3700		25.9900		2		MS
Copper	63	61.8100		63.5500		3		MS
Iron		181108.4000		182678.3000		1		P
Lead	208	138.1000		139.7000		1		MS
Lithium		205.5500		228.0500		11		P
Magnesium		39405.8100		40779.5500		3		P
Manganese		2927.5300		2991.0000		2		P
Molybdenum	98	2.9140		3.1365		8		MS
Nickel	60	69.3300		69.7500		1		MS
Phosphorus		4556.9400		4458.1500		2		P
Potassium		32419.7000		32744.6000		1		P
Selenium	78	0.5710	B	1.4500	U	100		MS
Silver	107	2.5960		2.5205		3		MS
Sodium		927.9300	B	941.3000	B	1		P
Strontium		185.9400		186.7500		0		P
Thallium	203	1.1250		0.9660	B	14		MS
Tin		29.6900	B	35.9000	B	21		P
Titanium		10128.0600		10518.5000		4		P
Vanadium	51	151.6000		172.4500		14	E	MS
Zinc	66	583.1000		596.0000		2		MS
Zirconium		32.5400	B	50.0000	B	54		P

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

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

CONCENTRATION QUALIFIERS: DE210 5723
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE211

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3050B	6010B	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3050B	6020	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3060A	7199	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8015B	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8015M	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8082	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8270C	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	3550B	8270C SIM	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	5035	8015M	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	300.0	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	314.0	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	6850	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	7471A	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	8015B	III
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359565	N	METHOD	8015M	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3050B	6010B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3050B	6020	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3060A	7199	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8015B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8015M	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8082	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8270C	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	3550B	8270C SIM	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	5035	8015M	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	300.0	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	314.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	7471A	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	8015B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359566	N	METHOD	8015M	III
28-Jul-2011	TB-072811	6359570	TB	5030B	8015M	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3050B	6010B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3550B	8082	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3550B	8270C	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	3550B	8270C SIM	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	METHOD	300.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359559	N	METHOD	7471A	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3050B	6010B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3550B	8082	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3550B	8270C	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	3550B	8270C SIM	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	METHOD	300.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359560	MS	METHOD	7471A	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	3050B	6010B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	METHOD	300.0	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0DU	6359562	DUP	METHOD	7471A	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3050B	6010B	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3050B	6020	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3060A	7199	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3550B	8082	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3550B	8270C	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	3550B	8270C SIM	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	METHOD	300.0	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	METHOD	314.0	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359564	FD	METHOD	7471A	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3050B	6010B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3050B	6020	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3060A	7199	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8015B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8015M	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8082	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8270C	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	3550B	8270C SIM	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	5035	8015M	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	300.0	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	314.0	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	7471A	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	8015B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359567	N	METHOD	8015M	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3050B	6010B	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3050B	6020	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3060A	7199	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3550B	8082	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3550B	8270C	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	3550B	8270C SIM	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	300.0	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	314.0	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	6850	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359563	N	METHOD	7471A	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3050B	6010B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3050B	6020	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3060A	7199	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8015B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8015M	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8082	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8270C	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	3550B	8270C SIM	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	5035	8015M	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	300.0	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	314.0	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	7471A	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	8015B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359569	N	METHOD	8015M	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3050B	6010B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3050B	6020	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3060A	7199	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8015B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8015M	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8082	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8270C	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	3550B	8270C SIM	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	5035	8015M	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	300.0	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	314.0	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	7471A	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	8015B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359568	N	METHOD	8015M	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3050B	6010B	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3050B	6020	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3060A	7199	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3550B	8082	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3550B	8270C	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	3550B	8270C SIM	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	METHOD	300.0	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	METHOD	314.0	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359557	N	METHOD	7471A	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3050B	6010B	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3050B	6020	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3060A	7199	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3550B	8082	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3550B	8270C	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	3550B	8270C SIM	III

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	METHOD	300.0	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	METHOD	314.0	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359558	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 **Collected:** 7/28/2011 10:19:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.9		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** RES **Dilution:** 1

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

Sample ID: SL-068-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 7:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.97	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-070-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 10:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.8		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-090-SA6-SB-3.0-4.0 **Collected:** 7/28/2011 11:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-172-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 12:04:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-172-SA5DN-SB-9.0-10.0 **Collected:** 7/28/2011 12:09:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.0		0.95	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.6		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.8		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.64	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
POTASSIUM	3830		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	2.57	J	0.355	MDL	11.1	PQL	mg/Kg	U	B

Sample ID: SL-068-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 7:50:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3040		12.1	MDL	53.7	PQL	mg/Kg	J	Q

Sample ID: SL-068-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.622	J	0.387	MDL	5.37	PQL	mg/Kg	U	B
TIN	1.81	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.67	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 7:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.72	J	0.387	MDL	5.38	PQL	mg/Kg	U	B
POTASSIUM	3430		12.1	MDL	53.8	PQL	mg/Kg	J	Q
TIN	2.07	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-068-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 7:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.64	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 ***Collected:*** 7/28/2011 11:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	3250		13.0	MDL	57.7	PQL	mg/Kg	J	Q
TIN	2.36	J	0.369	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	5.04	J	0.531	MDL	5.77	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.09	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
POTASSIUM	4840		12.5	MDL	55.4	PQL	mg/Kg	J	Q
TIN	2.04	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	5.04	J	0.509	MDL	5.54	PQL	mg/Kg	J	Z

Sample ID: SL-090-SA6-SB-3.0-4.0 ***Collected:*** 7/28/2011 11:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	1500		12.3	MDL	54.3	PQL	mg/Kg	J	Q
TIN	2.42	J	0.347	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.40	J	0.499	MDL	5.43	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.65	J	0.384	MDL	5.33	PQL	mg/Kg	U	B
POTASSIUM	4630		12.1	MDL	53.3	PQL	mg/Kg	J	Q
TIN	2.66	J	0.341	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.51	J	0.426	MDL	5.91	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
POTASSIUM	2980		13.4	MDL	59.1	PQL	mg/Kg	J	Q
TIN	2.21	J	0.378	MDL	11.8	PQL	mg/Kg	U	B
Zirconium	5.58	J	0.544	MDL	5.91	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.10	J	0.389	MDL	5.40	PQL	mg/Kg	J	Z
POTASSIUM	3800		12.2	MDL	54.0	PQL	mg/Kg	J	Q
TIN	2.68	J	0.345	MDL	10.8	PQL	mg/Kg	U	B

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.18	J	0.409	MDL	5.68	PQL	mg/Kg	U	B
POTASSIUM	2410		12.8	MDL	56.8	PQL	mg/Kg	J	Q
TIN	2.63	J	0.363	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	5.06	J	0.522	MDL	5.68	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.162	J	0.0630	MDL	0.435	PQL	mg/Kg	J	Z

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.116	J	0.0804	MDL	0.217	PQL	mg/Kg	J	Z, Q
CHROMIUM	30.7		0.130	MDL	0.435	PQL	mg/Kg	J	A
SILVER	0.0493	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	59.4		0.0239	MDL	0.109	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0623	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.103	J	0.0795	MDL	0.215	PQL	mg/Kg	J	Z, Q
CHROMIUM	14.1		0.129	MDL	0.429	PQL	mg/Kg	J	A
SILVER	0.0318	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	39.2		0.0236	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-068-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 7:40:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0930	J	0.0611	MDL	0.422	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 7:40:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0780	U	0.0780	MDL	0.211	PQL	mg/Kg	UJ	Q
CHROMIUM	16.8		0.126	MDL	0.422	PQL	mg/Kg	J	A
SILVER	0.0198	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	39.5		0.0232	MDL	0.105	PQL	mg/Kg	J	A

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.122	J	0.0663	MDL	0.457	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.206	J	0.0846	MDL	0.229	PQL	mg/Kg	J	Z, Q
CHROMIUM	16.2		0.137	MDL	0.457	PQL	mg/Kg	J	A
SILVER	0.0354	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	33.5		0.0252	MDL	0.114	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.167	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0824	J	0.0820	MDL	0.221	PQL	mg/Kg	J	Z, Q
CHROMIUM	23.3		0.133	MDL	0.443	PQL	mg/Kg	J	A
SILVER	0.0215	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	48.7		0.0244	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-090-SA6-SB-3.0-4.0 ***Collected:*** 7/28/2011 11:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0819	U	0.0819	MDL	0.221	PQL	mg/Kg	UJ	Q
CHROMIUM	17.7		0.133	MDL	0.443	PQL	mg/Kg	J	A
SILVER	0.0223	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	46.0		0.0244	MDL	0.111	PQL	mg/Kg	J	A

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.127	J	0.0812	MDL	0.220	PQL	mg/Kg	J	Z, Q
CHROMIUM	26.0		0.132	MDL	0.439	PQL	mg/Kg	J	A
SILVER	0.0572	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.9		0.0242	MDL	0.110	PQL	mg/Kg	J	A

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0686	MDL	0.473	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.102	J	0.0875	MDL	0.236	PQL	mg/Kg	J	Z, Q
CHROMIUM	25.8		0.142	MDL	0.473	PQL	mg/Kg	J	A
SILVER	0.0470	J	0.0168	MDL	0.118	PQL	mg/Kg	J	Z
VANADIUM	49.7		0.0260	MDL	0.118	PQL	mg/Kg	J	A

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.171	J	0.0620	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.167	J	0.0791	MDL	0.214	PQL	mg/Kg	J	Z, Q
CHROMIUM	31.9		0.128	MDL	0.428	PQL	mg/Kg	J	A
SILVER	0.0438	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	62.0		0.0235	MDL	0.107	PQL	mg/Kg	J	A

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0798	J	0.0659	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0991	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0663	J	0.0500	MDL	0.114	PQL	mg/Kg	J	Z
CHROMIUM	26.0		0.136	MDL	0.454	PQL	mg/Kg	J	A
SILVER	0.0536	J	0.0161	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	49.4		0.0250	MDL	0.114	PQL	mg/Kg	J	A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 ***Collected:*** 7/28/2011 10:19:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-19.0-20.0 ***Collected:*** 7/28/2011 7:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.27	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 7:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 ***Collected:*** 7/28/2011 11:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.25	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-090-SA6-SB-3.0-4.0 ***Collected:*** 7/28/2011 11:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

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

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.43	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix:** SO

Sample ID: SL-183-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 10:11:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-9.0-10.0 **Collected:** 7/28/2011 10:30:00 **Analysis Type:** RES **Dilution:** 1

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

Method Category: METALS

Method: 7471A **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 **Collected:** 7/28/2011 10:19:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0095	J	0.0076	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 7:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0366	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

Sample ID: SL-070-SA6-SB-4.0-5.0 **Collected:** 7/28/2011 10:20:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0127	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 12:04:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0159	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 **Collected:** 7/28/2011 12:09:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0114	J	0.0082	MDL	0.116	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: PrepDE211_v2 eQAPP Name: CDM_SSFL_110509

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

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0120	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0157	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

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

Sample ID: SL-090-SA6-SB-3.0-4.0 *Collected:* 7/28/2011 11:20:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.66	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

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

Sample ID: SL-068-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 7:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.6	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 12:04:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	1.1	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-068-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 7:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	29	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	75	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	61	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	89	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	43	J	19	MDL	190	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	28	J	19	MDL	190	PQL	ug/Kg	J	Z
CHRYSENE	80	J	19	MDL	190	PQL	ug/Kg	J	Z
FLUORANTHENE	150	J	19	MDL	190	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	47	J	19	MDL	190	PQL	ug/Kg	J	Z
PHENANTHRENE	80	J	19	MDL	190	PQL	ug/Kg	J	Z
PYRENE	150	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 **Collected:** 7/28/2011 11:30:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	50	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	58	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	73	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	55	J	20	MDL	200	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	36	J	20	MDL	200	PQL	ug/Kg	J	Z
CHRYSENE	60	J	20	MDL	200	PQL	ug/Kg	J	Z
FLUORANTHENE	59	J	20	MDL	200	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	37	J	20	MDL	200	PQL	ug/Kg	J	Z
PYRENE	58	J	20	MDL	200	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 12:04:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-4.0-5.0 **Collected:** 7/28/2011 10:11:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	37	U	37	MDL	190	PQL	ug/Kg	R	Q
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-183-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 10:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	34	J	19	MDL	380	PQL	ug/Kg	J	Z

Method Category: SVOA

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

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.8	J	0.37	MDL	1.8	PQL	ug/Kg	J	FD

Sample ID: SL-068-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 7:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ACENAPHTHYLENE	1.8	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.8	MDL	20	PQL	ug/Kg	J	Z
FLUORENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.98	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-068-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 7:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.43	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.6	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.8	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.9	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z
NAPHTHALENE	1.7	J	0.80	MDL	2.0	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

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

Sample ID: SL-070-SA6-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:20:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.93	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.78	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.1	J	6.7	MDL	20	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 12:04:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.80	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.83	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.4	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.7	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 12:09:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	15	J	7.1	MDL	21	PQL	ug/Kg	J	Z
Di-n-butylphthalate	8.3	J	7.1	MDL	21	PQL	ug/Kg	J	Z
FLUORENE	1.8	J	0.79	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-183-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:11:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-183-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 10:30:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.44	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

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

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

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

Data Qualifier Summary

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

EDD Filename: PrepDE211_v2 **eQAPP Name: CDM_SSFL_110509**

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

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE211

Method Blank Outlier Report

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

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

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21408FB222012	8/3/2011 8:12:00 PM	ALUMINUM	6.17 mg/Kg	DUP21-SA5DN-QC-072811
		BORON	0.739 mg/Kg	SL-068-SA6-SB-19.0-20.0
		CALCIUM	11.0 mg/Kg	SL-068-SA6-SB-4.0-5.0
		IRON	4.51 mg/Kg	SL-070-SA6-SB-19.0-20.0
		MAGNESIUM	0.694 mg/Kg	SL-070-SA6-SB-4.0-5.0
		MANGANESE	0.0420 mg/Kg	SL-090-SA6-SB-3.0-4.0
		PHOSPHORUS	1.27 mg/Kg	SL-172-SA5DN-SB-4.0-5.0
		STRONTIUM	0.0620 mg/Kg	SL-172-SA5DN-SB-9.0-10.0
		TIN	1.55 mg/Kg	SL-183-SA5DN-SB-4.0-5.0
				SL-183-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP21-SA5DN-QC-072811(RES)	TIN	2.57 mg/Kg	2.57U mg/Kg
SL-068-SA6-SB-19.0-20.0(RES)	BORON	0.622 mg/Kg	0.622U mg/Kg
SL-068-SA6-SB-19.0-20.0(RES)	TIN	1.81 mg/Kg	1.81U mg/Kg
SL-068-SA6-SB-4.0-5.0(RES)	BORON	1.72 mg/Kg	1.72U mg/Kg
SL-068-SA6-SB-4.0-5.0(RES)	TIN	2.07 mg/Kg	2.07U mg/Kg
SL-070-SA6-SB-19.0-20.0(RES)	TIN	2.36 mg/Kg	2.36U mg/Kg
SL-070-SA6-SB-4.0-5.0(RES)	TIN	2.04 mg/Kg	2.04U mg/Kg
SL-090-SA6-SB-3.0-4.0(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	BORON	3.65 mg/Kg	3.65U mg/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	TIN	2.21 mg/Kg	2.21U mg/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	BORON	1.18 mg/Kg	1.18U mg/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

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

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

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-183-SA5DN-SB-4.0-5.0MS SL-183-SA5DN-SB-4.0-5.0MSD (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	ANTIMONY	30	28	75.00-125.00	-	ANTIMONY	J (all detects) UJ (all non-detects) Post Spike = 97%
SL-183-SA5DN-SB-4.0-5.0MS (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	BARIUM	129	-	75.00-125.00	-	BARIUM	No qual, >4x

Method: 6010B
Matrix: SO

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

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

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

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

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-183-SA5DN-SB-4.0-5.0MSD (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	MANGANESE	-	67	75.00-125.00	-	MANGANESE	No qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-183-SA5DN-SB-4.0-5.0MS (DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: DE211_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

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

Method: 7199
Matrix: SO

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE211 Laboratory: LL

EDD Filename: DE211_v2. eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21426BQ222053A (DUP21 -SA5DN -QC-072811 SL -068-SA6-SB-19.0-20.0 SL -068-SA6-SB-4.0-5.0 SL -070-SA6-SB-19.0-20.0 SL -070-SA6-SB-4.0-5.0 SL -090-SA6-SB-3.0-4.0 SL -172-SA5DN -SB-4.0-5.0 SL -172-SA5DN -SB-9.0-10.0 SL -183-SA5DN -SB-4.0-5.0 SL -183-SA5DN -SB-9.0-10.0)	ANTIMONY	66	-	80.00-120.00	-	ANTIMONY	No qual, SRM within QC limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21408FQ222016 (DUP21 -SA5DN -QC-072811 SL -068-SA6-SB-19.0-20.0 SL -068-SA6-SB-4.0-5.0 SL -070-SA6-SB-19.0-20.0 SL -070-SA6-SB-4.0-5.0 SL -090-SA6-SB-3.0-4.0 SL -172-SA5DN -SB-4.0-5.0 SL -172-SA5DN -SB-9.0-10.0 SL -183-SA5DN -SB-4.0-5.0 SL -183-SA5DN -SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM TITANIUM	146 123 121 177	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM TITANIUM	No qual, SRM within QC limits

Field Duplicate RPD Report

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

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

Method: 160.3M
Matrix: SO

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

Method: 300.0
Matrix: SO

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

Method: 6010B
Matrix: SO

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

Method: 6020
Matrix: SO

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

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

Field Duplicate RPD Report

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

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

Method: 7199
Matrix: SO

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

Method: 7471A
Matrix: SO

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

Method: 8270C SIM
Matrix: SO

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

Method: 9045M
Matrix: SO

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

Reporting Limit Outliers

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

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

Method: 6010B

Matrix: SO

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

Method: 6020

Matrix: SO

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

Reporting Limit Outliers

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

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

Method: 6020

Matrix: SO

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

Method: 7199

Matrix: SO

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

Method: 7471A

Matrix: SO

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

Reporting Limit Outliers

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

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

Method: 7471A

Matrix: SO

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

Method: 8015M

Matrix: SO

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

Method: 8082

Matrix: SO

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

Method: 8270C

Matrix: SO

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

Reporting Limit Outliers

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

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

Method: **8270C SIM**

Matrix: **SO**

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

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

SDG #: DE211 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: CL

2nd Reviewer: MG

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

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

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

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

Validated Samples:

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

Notes:

Lancaster Laboratories

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

>4X

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

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

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

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

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

Lancaster Laboratories

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

< 5xRL

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

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

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

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE211 2329

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

Lancaster Laboratories

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

5/05

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

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

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

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

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

DE211 2331

SAMPLE DELIVERY GROUP

DE212

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3050B	6010B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3050B	6020	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3060A	7199	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8082	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8270C	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	3550B	8270C SIM	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	5035	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	300.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	314.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	7471A	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360506	N	METHOD	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3050B	6010B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3050B	6020	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3060A	7199	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8015B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8082	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8270C	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	3550B	8270C SIM	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	5035	8015M	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	300.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	314.0	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360507	MS	METHOD	7471A	III

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

Sample Cross Reference

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

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

Sample Cross Reference

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

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

Sample Cross Reference

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

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

Sample Cross Reference

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

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

Sample Cross Reference

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

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

Sample Cross Reference

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

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

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	METHOD	314.0	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360502	N	METHOD	7471A	III

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

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE212
EDD Filename: DE212_v1
Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM
Method: 300.0 **Matrix:** SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.92	U	0.92	MDL	1.2	PQL	mg/Kg	UJ	Q, FD

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.8		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS
Method: 6010B **Matrix:** SO

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12400		6.67	MDL	22.1	PQL	mg/Kg	J	E
BORON	1.30	J	0.397	MDL	5.52	PQL	mg/Kg	J	Z, FD
IRON	26700		2.88	MDL	22.1	PQL	mg/Kg	J	E
MAGNESIUM	4650		0.485	MDL	11.0	PQL	mg/Kg	J	E
MANGANESE	251		0.0397	MDL	0.552	PQL	mg/Kg	J	E
PHOSPHORUS	479		0.386	MDL	11.0	PQL	mg/Kg	J	E
POTASSIUM	2310		12.5	MDL	55.2	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	34.7		0.0276	MDL	0.552	PQL	mg/Kg	J	E
TIN	2.95	J	0.353	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	1000		0.0783	MDL	1.10	PQL	mg/Kg	J	E
Zirconium	4.91	J	0.508	MDL	5.52	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1660		2.64	MDL	21.1	PQL	mg/Kg	J	E
SODIUM	80.2	J	6.27	MDL	105	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15400		6.63	MDL	21.9	PQL	mg/Kg	J	E
BORON	1.98	J	0.394	MDL	5.48	PQL	mg/Kg	J	Z
IRON	17600		2.86	MDL	21.9	PQL	mg/Kg	J	E
MAGNESIUM	3870		0.482	MDL	11.0	PQL	mg/Kg	J	E
MANGANESE	114		0.0394	MDL	0.548	PQL	mg/Kg	J	E
PHOSPHORUS	59.5		0.383	MDL	11.0	PQL	mg/Kg	J	E
POTASSIUM	1460		12.4	MDL	54.8	PQL	mg/Kg	J	Q, Q, E
STRONTIUM	10.5		0.0274	MDL	0.548	PQL	mg/Kg	J	E
TIN	3.11	J	0.350	MDL	11.0	PQL	mg/Kg	U	B
TITANIUM	997		0.0778	MDL	1.10	PQL	mg/Kg	J	E
Zirconium	3.36	J	0.504	MDL	5.48	PQL	mg/Kg	U	B

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix: SO**

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

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

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP10-SA6-QC-072911 ***Collected:*** 7/29/2011 8:00:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.117	J	0.0634	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: DUP10-SA6-QC-072911 ***Collected:*** 7/29/2011 8:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.05		0.0546	MDL	0.109	PQL	mg/Kg	J	FD

Sample ID: DUP10-SA6-QC-072911 ***Collected:*** 7/29/2011 8:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0809	MDL	0.219	PQL	mg/Kg	J	Z, Q
ARSENIC	9.88		0.0874	MDL	0.437	PQL	mg/Kg	J	Q, FD
CADMIUM	0.216		0.0481	MDL	0.109	PQL	mg/Kg	J	E
CHROMIUM	16.1		0.131	MDL	0.437	PQL	mg/Kg	J	Q, E, Q, A
COBALT	13.9		0.0219	MDL	0.109	PQL	mg/Kg	J	FD
COPPER	22.1		0.0874	MDL	0.437	PQL	mg/Kg	J	FD
LEAD	10.2		0.0111	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	9.96		0.109	MDL	0.437	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0386	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6020 **Matrix: SO**

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

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

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

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

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0999	J	0.0613	MDL	0.423	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: METALS

Method: 6020 **Matrix: SO**

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix: SO**

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

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

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

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

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

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

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected: 7/29/2011 11:45:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.193	J	0.0611	MDL	0.421	PQL	mg/Kg	J	Z

Sample ID: SL-126-SA6-SB-9.0-10.0 **Collected: 7/29/2011 11:45:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0779	U	0.0779	MDL	0.211	PQL	mg/Kg	UJ	Q
ARSENIC	4.38		0.0843	MDL	0.421	PQL	mg/Kg	J	Q
CADMIUM	0.0463	U	0.0463	MDL	0.105	PQL	mg/Kg	UJ	E
CHROMIUM	15.3		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, Q, A

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-126-SA6-SB-9.0-10.0** ***Collected:*** **7/29/2011 11:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	5.81		0.0107	MDL	0.211	PQL	mg/Kg	J	Q, E
NICKEL	7.57		0.105	MDL	0.421	PQL	mg/Kg	J	Q, Q, E
SILVER	0.0720	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z

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

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

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix: SO**

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

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

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

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

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

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

Method Category: METALS

Method: 7199 **Matrix: SO**

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212
EDD Filename: DE212_v1
Laboratory: LL
eQAPP Name: CDM_SSFL_110509

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

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

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

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

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

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

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

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7199 **Matrix: SO**

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

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

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

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

Method Category: METALS

Method: 7471A **Matrix: SO**

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.509		0.0080	MDL	0.113	PQL	mg/Kg	J	Q, FD

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

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

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

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

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

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

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

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method Category: METALS

Method: 7471A **Matrix:** SO

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

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

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

Method Category: SVOA

Method: 8015M **Matrix: SO**

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

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

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

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

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

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

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

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

Method Category: SVOA

Method: 8082 **Matrix: SO**

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix: SO**

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	3.9		0.36	MDL	1.9	PQL	ug/Kg	J	FD

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

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

Method Category: SVOA

Method: 8270C **Matrix: SO**

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	59	J	19	MDL	380	PQL	ug/Kg	J	Z

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212
EDD Filename: DE212_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

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

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

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	3.7	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	5.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
Butylbenzylphthalate	36	J	30	MDL	91	PQL	ug/Kg	J	Z, L
CHRYSENE	4.2	J	1.7	MDL	8.4	PQL	ug/Kg	J	Z
Di-n-butylphthalate	59	J	30	MDL	91	PQL	ug/Kg	J	Z
FLUORANTHENE	4.4	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z
PYRENE	4.3	J	3.4	MDL	8.4	PQL	ug/Kg	J	Z

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

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

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

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212
EDD Filename: DE212_v1
Laboratory: LL
eQAPP Name: CDM_SSFL_110509

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

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

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

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

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

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

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

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

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

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

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

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

Method Category: VOA

Method: 8015B **Matrix:** SO

Sample ID: SL-125-SA6-SB-4.0-5.0 **Collected:** 7/29/2011 7:55:00 **Analysis Type:** REA3 **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.6	U	1.6	MDL	3.8	PQL	mg/Kg	UJ	Q
p-Terphenyl	1.6	U	1.6	MDL	3.8	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Reason Code Legend

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

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

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

* denotes a non-reportable result

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

Data Qualifier Summary

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

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

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE212

Method Blank Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21408GB220201	8/4/2011 2:01:00 AM	ALUMINUM IRON PHOSPHORUS POTASSIUM TIN Zirconium	10.4 mg/Kg 6.50 mg/Kg 1.69 mg/Kg 14.9 mg/Kg 1.59 mg/Kg 1.38 mg/Kg	DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0
P21408GB220953	8/4/2011 9:53:00 AM	CALCIUM	5.04 mg/Kg	DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP10-SA6-QC-072911(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
DUP10-SA6-QC-072911(RES)	Zirconium	4.91 mg/Kg	4.91U mg/Kg
SL-122-SA6-SB-0.0-0.5(RES)	TIN	3.22 mg/Kg	3.22U mg/Kg
SL-122-SA6-SB-0.0-0.5(RES)	Zirconium	6.52 mg/Kg	6.52U mg/Kg
SL-123-SA6-SB-4.0-5.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-123-SA6-SB-4.0-5.0(RES)	Zirconium	3.49 mg/Kg	3.49U mg/Kg
SL-123-SA6-SB-7.0-8.0(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-123-SA6-SB-7.0-8.0(RES)	Zirconium	4.70 mg/Kg	4.70U mg/Kg
SL-125-SA6-SB-20.0-21.0(RES)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-125-SA6-SB-20.0-21.0(RES)	Zirconium	5.77 mg/Kg	5.77U mg/Kg
SL-125-SA6-SB-4.0-5.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-125-SA6-SB-4.0-5.0(RES)	Zirconium	5.55 mg/Kg	5.55U mg/Kg
SL-126-SA6-SB-4.0-5.0(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-126-SA6-SB-4.0-5.0(RES)	Zirconium	3.66 mg/Kg	3.66U mg/Kg
SL-126-SA6-SB-9.0-10.0(RES)	TIN	3.11 mg/Kg	3.11U mg/Kg
SL-126-SA6-SB-9.0-10.0(RES)	Zirconium	3.36 mg/Kg	3.36U mg/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	TIN	3.41 mg/Kg	3.41U mg/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	TIN	3.43 mg/Kg	3.43U mg/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	Zirconium	6.72 mg/Kg	6.72U mg/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	Zirconium	6.75 mg/Kg	6.75U mg/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	TIN	3.23 mg/Kg	3.23U mg/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	Zirconium	6.66 mg/Kg	6.66U mg/Kg

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

Method Blank Outlier Report

Lab Reporting Batch ID: DE212
EDD Filename: DE212_v1

Laboratory: LL
eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8015M
Matrix: SO

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

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (SL-125-SA6-SB-4.0-5.0)	m-Terphenyl p-Terphenyl	72 69	68 66	75.00-125.00 75.00-125.00	- -	m-Terphenyl p-Terphenyl	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	ANTIMONY LEAD NICKEL	30 - 130	37 174 60	75.00-125.00 75.00-125.00 75.00-125.00	- 21 (20.00) 32 (20.00)	ANTIMONY LEAD NICKEL	J(all detects) UJ(all non-detects)
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	BARIUM	217	166	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TITANIUM	-708 -1906 -5104 -506 28 -39 -8	2535 376 1909 484 157 65 359	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	36 (20.00) 42 (20.00) 34 (20.00) 36 (20.00) 22 (20.00) 21 (20.00) 30 (20.00)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS TITANIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
SL-125-SA6-SB-4.0-5.0MS **SL-125-SA6-SB-4.0-5.0MSD** (DUP10-SA6-QC-072911 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0)	POTASSIUM	44	181	75.00-125.00	31 (20.00)	POTASSIUM	J(all detects) UJ(all non-detects)

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 7471A
Matrix: SO

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

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-126-SA6-SB-9.0-10.0MS (DUP10-SA6-QC-072911 SL-126-SA6-SB-9.0-10.0)	FLUORIDE	72	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MSD (SL-125-SA6-SB-4.0-5.0)	PENTACHLOROPHENOL	-	-	28.00-127.00	50 (30.00)	PENTACHLOROPHENOL	J(all detects)

Method: 8270C SIM
Matrix: SO

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

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM
Matrix: SO

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

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6010B
Matrix: SO

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

Method: 6020
Matrix: SO

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

Method: 7471A
Matrix: SO

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

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21426CQ222340A (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	ANTIMONY	65	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21408GQ220205 (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	ALUMINUM TITANIUM	137 170	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC limits

Method: 8270C
Matrix: SO

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

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2LDLCSQ260823 (DUP10 -SA6-QC-072911 SL -122-SA6-SB-0.0-0.5 SL -123-SA6-SB-4.0-5.0 SL -123-SA6-SB-7.0-8.0 SL -125-SA6-SB-20.0-21.0 SL -125-SA6-SB-4.0-5.0 SL -126-SA6-SB-4.0-5.0 SL -126-SA6-SB-9.0-10.0 SL -174-SA5DN -SB-4.0-5.0 SL -174-SA5DN -SB-9.0-10.0 SL -180-SA5DN -SB-4.0-5.0 SL -180-SA5DN -SB-9.0-10.0)	Butylbenzylphthalate	133	-	65.00-131.00	-	Butylbenzylphthalate	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 8082
Matrix: SO

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

Method: 8270C SIM
Matrix: SO

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

Field Duplicate RPD Report

Lab Reporting Batch ID: DE212

Laboratory: LL

EDD Filename: DE212_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
MOISTURE	8.6	12.0	33		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
FLUORIDE	1.9	1.2 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
ALUMINUM	17500	12400	34	50.00	No Qualifiers Applied
IRON	23800	26700	11	50.00	
LITHIUM	24.2	16.7	37	50.00	
MAGNESIUM	5990	4650	25	50.00	
MANGANESE	272	251	8	50.00	
PHOSPHORUS	527	479	10	50.00	
POTASSIUM	3610	2310	44	50.00	
SODIUM	227	283	22	50.00	
STRONTIUM	58.0	34.7	50	50.00	
TIN	2.96	2.95	0	50.00	
TITANIUM	1130	1000	12	50.00	
Zirconium	5.55	4.91	12	50.00	
BORON	5.81	1.30	127	50.00	J(all detects)
CALCIUM	26400	10900	83	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
ANTIMONY	0.129	0.110	16	50.00	No Qualifiers Applied
BARIUM	75.9	101	28	50.00	
BERYLLIUM	0.518	0.382	30	50.00	
CADMIUM	0.202	0.216	7	50.00	
CHROMIUM	21.2	16.1	27	50.00	
LEAD	6.78	10.2	40	50.00	
NICKEL	13.7	9.96	32	50.00	
SELENIUM	0.166	0.117	35	50.00	
SILVER	0.0238	0.0386	47	50.00	
THALLIUM	0.263	0.171	42	50.00	
VANADIUM	44.7	38.0	16	50.00	
ZINC	55.3	50.6	9	50.00	
ARSENIC	4.45	9.88	76	50.00	J(all detects)
COBALT	7.17	13.9	64	50.00	
COPPER	11.1	22.1	66	50.00	
MOLYBDENUM	0.346	2.05	142	50.00	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
HEXAVALENT CHROMIUM	0.26	0.33	24	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
MERCURY	0.0790	0.509	146	50.00	J(all detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
EFH (C15-C20)	2.6 U	9.2	200	50.00	J(all detects)
EFH (C21-C30)	7.7	63	156	50.00	UJ(all non-detects)
EFH (C30-C40)	19	130	149	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
Aroclor 5460	6.5	7.8	18	50.00	No Qualifiers Applied
AROCLOR 1254	3.9	6.9	56	50.00	J(all detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
ACENAPHTHENE	97	1.9 U	200	50.00	J(all detects)
ACENAPHTHYLENE	3.7	1.9 U	200	50.00	UJ(all non-detects)
ANTHRACENE	730	1.9 U	200	50.00	
DIBENZO(A,H)ANTHRACENE	69	1.9 U	200	50.00	
Di-n-butylphthalate	57	14	121	50.00	
FLUORENE	110	1.9 U	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
PH	8.25	10.1	20	50.00	No Qualifiers Applied

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE212

EDD Filename: DE212_v1

Laboratory: LL

eQAPP Name: CDM_SSFL_110509

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	BORON	J	1.30	5.52	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	11.0	PQL	mg/Kg	
	Zirconium	J	4.91	5.52	PQL	mg/Kg	
SL-122-SA6-SB-0.0-0.5	TIN	J	3.22	9.87	PQL	mg/Kg	J (all detects)
SL-123-SA6-SB-4.0-5.0	BORON	J	2.18	5.26	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	10.5	PQL	mg/Kg	
	Zirconium	J	3.49	5.26	PQL	mg/Kg	
SL-123-SA6-SB-7.0-8.0	BORON	J	1.44	5.39	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	10.8	PQL	mg/Kg	
	Zirconium	J	4.70	5.39	PQL	mg/Kg	
SL-125-SA6-SB-20.0-21.0	BORON	J	1.81	5.70	PQL	mg/Kg	J (all detects)
	TIN	J	3.18	11.4	PQL	mg/Kg	
SL-125-SA6-SB-4.0-5.0	TIN	J	2.96	10.8	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	BORON	J	1.43	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.2	105	PQL	mg/Kg	
	TIN	J	2.86	10.5	PQL	mg/Kg	
	Zirconium	J	3.66	5.27	PQL	mg/Kg	
SL-126-SA6-SB-9.0-10.0	BORON	J	1.98	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	3.11	11.0	PQL	mg/Kg	
	Zirconium	J	3.36	5.48	PQL	mg/Kg	
SL-174-SA5DN-SB-4.0-5.0	TIN	J	3.41	11.3	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-9.0-10.0	BORON	J	4.55	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	3.43	11.1	PQL	mg/Kg	
SL-180-SA5DN-SB-4.0-5.0	TIN	J	3.05	11.0	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-9.0-10.0	TIN	J	3.23	11.5	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	ANTIMONY	J	0.110	0.219	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.117	0.437	PQL	mg/Kg	
	SILVER	J	0.0386	0.109	PQL	mg/Kg	
SL-122-SA6-SB-0.0-0.5	ANTIMONY	J	0.161	0.199	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0903	0.399	PQL	mg/Kg	
	SILVER	J	0.0322	0.0997	PQL	mg/Kg	
SL-123-SA6-SB-4.0-5.0	ANTIMONY	J	0.0849	0.217	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0839	0.108	PQL	mg/Kg	
	SELENIUM	J	0.166	0.433	PQL	mg/Kg	
	SILVER	J	0.0304	0.108	PQL	mg/Kg	
SL-123-SA6-SB-7.0-8.0	SELENIUM	J	0.0999	0.423	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0289	0.106	PQL	mg/Kg	
SL-125-SA6-SB-20.0-21.0	SILVER	J	0.0420	0.114	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-4.0-5.0	ANTIMONY	J	0.129	0.212	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.166	0.425	PQL	mg/Kg	
	SILVER	J	0.0238	0.106	PQL	mg/Kg	
SL-126-SA6-SB-4.0-5.0	SELENIUM	J	0.0953	0.414	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0347	0.103	PQL	mg/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-126-SA6-SB-9.0-10.0	SELENIUM	J	0.193	0.421	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0720	0.105	PQL	mg/Kg	
SL-174-SA5DN-SB-4.0-5.0	SELENIUM	J	0.0869	0.453	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0429	0.113	PQL	mg/Kg	
SL-174-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.100	0.223	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0902	0.112	PQL	mg/Kg	
	SILVER	J	0.0683	0.112	PQL	mg/Kg	
SL-180-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0855	0.224	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.447	PQL	mg/Kg	
	SILVER	J	0.0477	0.112	PQL	mg/Kg	
SL-180-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0863	0.479	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0467	0.120	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-122-SA6-SB-0.0-0.5	HEXAVALENT CHROMIUM	J	0.28	0.99	PQL	mg/Kg	J (all detects)
SL-123-SA6-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.39	1.1	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-20.0-21.0	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.31	1.1	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.2	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.28	1.2	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.27	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-122-SA6-SB-0.0-0.5	MERCURY	J	0.0136	0.0986	PQL	mg/Kg	J (all detects)
SL-123-SA6-SB-4.0-5.0	MERCURY	J	0.0700	0.109	PQL	mg/Kg	J (all detects)
SL-125-SA6-SB-4.0-5.0	MERCURY	J	0.0790	0.105	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	MERCURY	J	0.0189	0.101	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-4.0-5.0	MERCURY	J	0.0095	0.116	PQL	mg/Kg	J (all detects)
SL-174-SA5DN-SB-9.0-10.0	MERCURY	J	0.0175	0.110	PQL	mg/Kg	J (all detects)
SL-180-SA5DN-SB-9.0-10.0	MERCURY	J	0.0096	0.116	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	EFH (C15-C20)	J	9.2	14	PQL	mg/Kg	J (all detects)
SL-126-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.71	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-174-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.82	2.0	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	BENZO(A)ANTHRACENE	J	50	190	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	57	190	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	85	190	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	65	190	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	28	190	PQL	ug/Kg	
	CHRYSENE	J	54	190	PQL	ug/Kg	
	FLUORANTHENE	J	89	190	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	36	190	PQL	ug/Kg	
	PHENANTHRENE	J	21	190	PQL	ug/Kg	
	PYRENE	J	95	190	PQL	ug/Kg	
SL-123-SA6-SB-7.0-8.0	BENZO(G,H,I)PERYLENE	J	28	180	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	130	360	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	19	180	PQL	ug/Kg	
SL-180-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	59	380	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	Butylbenzylphthalate	J	8.2	20	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	14	20	PQL	ug/Kg	
SL-122-SA6-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.7	8.4	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	5.4	8.4	PQL	ug/Kg	
	Butylbenzylphthalate	J	36	91	PQL	ug/Kg	
	CHRYSENE	J	4.2	8.4	PQL	ug/Kg	
	Di-n-butylphthalate	J	59	91	PQL	ug/Kg	
	FLUORANTHENE	J	4.4	8.4	PQL	ug/Kg	
	PYRENE	J	4.3	8.4	PQL	ug/Kg	
SL-123-SA6-SB-4.0-5.0	ANTHRACENE	J	3.3	9.1	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	45	98	PQL	ug/Kg	
	Butylbenzylphthalate	J	38	98	PQL	ug/Kg	
	Di-n-butylphthalate	J	55	98	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE212 **Laboratory: LL**

EDD Filename: DE212_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA6-SB-7.0-8.0	ACENAPHTHENE	J	4.1	9.1	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	58	98	PQL	ug/Kg	
	Di-n-butylphthalate	J	70	98	PQL	ug/Kg	
	Di-n-octylphthalate	J	41	98	PQL	ug/Kg	
SL-125-SA6-SB-20.0-21.0	ACENAPHTHENE	J	6.1	9.6	PQL	ug/Kg	J (all detects)
	ACENAPHTHYLENE	J	2.4	9.6	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	46	100	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	4.9	9.6	PQL	ug/Kg	
	Di-n-butylphthalate	J	56	100	PQL	ug/Kg	
SL-125-SA6-SB-4.0-5.0	ACENAPHTHYLENE	J	3.7	9.1	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	84	98	PQL	ug/Kg	
	Di-n-butylphthalate	J	57	98	PQL	ug/Kg	
SL-126-SA6-SB-4.0-5.0	ACENAPHTHYLENE	J	0.69	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.93	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.6	19	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	19	PQL	ug/Kg	
SL-126-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.8	20	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	7.5	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	20	PQL	ug/Kg	
SL-174-SA5DN-SB-4.0-5.0	ACENAPHTHYLENE	J	7.0	9.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	56	100	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	6.4	9.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	5.7	9.7	PQL	ug/Kg	
SL-174-SA5DN-SB-9.0-10.0	ANTHRACENE	J	0.39	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	
	Butylbenzylphthalate	J	7.9	21	PQL	ug/Kg	
	CHRYSENE	J	0.42	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	13	21	PQL	ug/Kg	
	PHENANTHRENE	J	0.85	1.9	PQL	ug/Kg	
	PYRENE	J	0.91	1.9	PQL	ug/Kg	
SL-180-SA5DN-SB-4.0-5.0	ANTHRACENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	10	21	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	15	21	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.6	1.9	PQL	ug/Kg	
SL-180-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	39	110	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	56	110	PQL	ug/Kg	

LDC #: 26533C4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE212 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates: 7/19/11
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No qual by TB/EB
V.	ICP Interference Check Sample (ICS) Analysis	N	✓ ✓ ✓ ✓ ✓ ✓ ✓
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, P, Ti, V, Zn >4X (No qual for J#)
VII.	Duplicate Sample Analysis	SW	Sb, Hg, Se, Ag, Zr <5X, Cd: 0.506 (RPD out J/UJ)
VIII.	Laboratory Control Samples (LCS)	N A	(difference) ≤0, >1>) J/UJ.
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Soil

1	SL-180-SA5DN-SB-4.0-5.0	11	SL-126-SA6-SB-9.0-10.0	21	MB	31	
2	SL-180-SA5DN-SB-9.0-10.0	12	DUP10-SA6-QC-072911	22		32	
3	SL-174-SA5DN-SB-4.0-5.0	13	SL-125-SA6-SB-4.0-5.0MS	23		33	
4	SL-174-SA5DN-SB-9.0-10.0	14	SL-125-SA6-SB-4.0-5.0MSD	24		34	
5	SL-122-SA6-SB-0.0-0.5	15	SL-125-SA6-SB-4.0-5.0DUP	25		35	
6	SL-123-SA6-SB-4.0-5.0	16		26		36	
7	SL-123-SA6-SB-7.0-5.0	17		27		37	
8	SL-125-SA6-SB-4.0-5.0	18		28		38	
9	SL-125-SA6-SB-20.0-21.0	19		29		39	
10	SL-126-SA6-SB-4.0-5.0	20		30		40	

Notes: _____

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QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE212
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6360506BKG Matrix Spike Lab Sample ID: 6360507MS Matrix Spike Duplicate Lab Sample ID: 6360508MSD
% Solids for Sample: 91.4
Batch Id(s): P21408G, P21426C, P21411D

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	RPD	M
Aluminum		17450.8103		15931.8520		22996.9322		214.5278	218.8184	MG/KG	-708		2535		36	*		20	P
Antimony	121	0.1294	B	0.5245		0.6093		1.3129	1.2872	MG/KG	30	N	37	N	15		75 - 125	20	MS
Arsenic	75	4.4528		6.6280		7.9397		2.1882	2.1453	MG/KG	99		163	N	18		75 - 125	20	MS
Barium	137	75.8641		99.5842		93.6628		10.9409	10.7264	MG/KG	217		166		6			20	MS
Beryllium	9	0.5184		1.2560		1.1799		0.8753	0.8581	MG/KG	84		77		6		75 - 125	20	MS
Boron		5.8128		211.3603		216.7768		214.5278	218.8184	MG/KG	96		96		3		84 - 115	20	P
Cadmium	111	0.2018		1.2597		1.2548		1.0941	1.0726	MG/KG	97		98		0		75 - 125	20	MS
Calcium		26421.0618		18242.1805		28068.6258		429.0556	437.6368	MG/KG	-1906		376		42	*		20	P
Chromium	52	21.1914		36.6083		23.7482		10.9409	10.7264	MG/KG	141	N	24	N	43	*	75 - 125	20	MS
Cobalt	59	7.1721		58.2276		60.6256		54.7046	53.6320	MG/KG	93		100		4		75 - 125	20	MS
Copper	63	11.1470		21.9912		23.7268		10.9409	10.7264	MG/KG	99		117		8		75 - 125	20	MS
Iron		23757.9609		18283.3001		25846.8370		107.2639	109.4092	MG/KG	-5104		1909		34	*		20	P
Lead	208	6.7834		10.0066		12.3675		3.2823	3.2179	MG/KG	98		174	N	21	*	75 - 125	20	MS
Lithium		24.2412		133.7667		145.2702		107.2639	109.4092	MG/KG	102		111		8		82 - 114	20	P
Magnesium		5991.5592		4905.4801		7050.1477		214.5278	218.8184	MG/KG	-506		484		36	*		20	P
Manganese		272.1440		287.2667		357.9300		53.6320	54.7046	MG/KG	28		157		22	*		20	P
Mercury		0.0790	B	0.2041		0.1836		0.1744	0.1700	MG/KG	72		62	N	11		65 - 135	20	CV
Molybdenum	98	0.3459		10.8337		10.8744		10.9409	10.7264	MG/KG	96		98		0		75 - 125	20	MS
Nickel	60	13.6538		27.8337		20.0584		10.9409	10.7264	MG/KG	130	N	60	N	32	*	75 - 125	20	MS
Phosphorus		527.3198		485.2748		597.9847		107.2639	109.4092	MG/KG	-39		65		21	*		20	P
Potassium		3605.4910		4078.3413		5589.6039		1072.6391	1094.0919	MG/KG	44	N	181	N	31	*	75 - 125	20	P
Selenium	78	0.1659	B	2.2560		2.2161		2.1882	2.1453	MG/KG	96		96		2		75 - 125	20	MS
Silver	107	0.0238	B	10.9322		10.7886		10.9409	10.7264	MG/KG	100		100		1		75 - 125	20	MS
Sodium		226.7023		1233.7989		1305.7144		1072.6391	1094.0919	MG/KG	94		99		6		75 - 125	20	P
Strontium		57.9825		144.9586		162.2429		107.2639	109.4092	MG/KG	81		95		11		75 - 115	20	P
Thallium	203	0.2626		0.6786		0.6389		0.4376	0.4291	MG/KG	95		88		6		75 - 125	20	MS
Tin		2.9638	B	394.3214		390.8042		429.0556	437.6368	MG/KG	91		89		1		80 - 110	20	P
Titanium		1131.9962		1123.2076		1524.6488		107.2639	109.4092	MG/KG	-8		359		30	*		20	P
Vanadium	51	44.7409		53.2604		44.0855		10.9409	10.7264	MG/KG	78		-6		19			20	MS
Zinc	66	55.2782		62.7790		54.7260		10.9409	10.7264	MG/KG	69		-5		14			20	MS
Zirconium		5.5495		115.1553		113.0700		107.2639	109.4092	MG/KG	102		98		2		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

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QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE212
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6360506BKG
% Solids for Duplicate: 92.4
Batch ID(s): P21408G, P21426C, P21411D
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6360509DUP
% Solids for Sample: 91.4

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			17450.8103		17299.9292		1		P
Antimony	121		0.1294	B	0.0944	B	31		MS
Arsenic	75		4.4528		4.7593		7		MS
Barium	137		75.8641		78.3538		3		MS
Beryllium	9	0.1	0.5184		0.6034		15		MS
Boron		5.4	5.8128		5.8384		0		P
Cadmium	111	0.1	0.2018		0.4524		77	*	MS
Calcium			26421.0618		21653.7703		20		P
Chromium	52		21.1914		24.9327		16		MS
Cobalt	59		7.1721		7.8690		9		MS
Copper	63		11.1470		12.6010		12		MS
Iron			23757.9609		22331.5785		6		P
Lead	208		6.7834		7.0422		4		MS
Lithium			24.2412		24.2963		0		P
Magnesium			5991.5592		5753.8079		4		P
Manganese			272.1440		265.1017		3		P
Mercury			0.0790	B	0.0641	B	21		CV
Molybdenum	98	0.1	0.3459		0.3909		12		MS
Nickel	60		13.6538		15.7844		14		MS
Phosphorus			527.3198		465.1317		13		P
Potassium			3605.4910		3541.0950		2		P
Selenium	78		0.1659	B	0.2059	B	22		MS
Silver	107		0.0238	B	0.0382	B	46		MS
Sodium		108.3	226.7023		197.0084		14		P
Strontium			57.9825		46.8100		21	*	P
Thallium	203	0.1	0.2626		0.2851		8		MS
Tin			2.9638	B	2.7878	B	6		P
Titanium			1131.9962		1105.6324		2		P
Vanadium	51		44.7409		51.1488		13		MS
Zinc	66		55.2782		58.9337		6		MS
Zirconium		5.4	5.5495		7.3958		29		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

cd difference 0.2506 mg/kg (≤ 0.212)

DE212 2938

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

SAMPLE DELIVERY GROUP

DE213

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3050B	6010B	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3050B	6020	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3060A	7199	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3550B	8082	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3550B	8270C	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	3550B	8270C SIM	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	METHOD	300.0	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	METHOD	314.0	III
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361777	N	METHOD	7471A	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3050B	6010B	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3050B	6020	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3060A	7199	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3550B	8082	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3550B	8270C	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	3550B	8270C SIM	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	METHOD	300.0	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	METHOD	314.0	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361778	N	METHOD	7471A	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3050B	6010B	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3050B	6020	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3060A	7199	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3550B	8082	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3550B	8270C	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	3550B	8270C SIM	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	METHOD	300.0	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	METHOD	314.0	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361770	N	METHOD	7471A	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3050B	6010B	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3050B	6020	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3060A	7199	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3550B	8082	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3550B	8270C	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	3550B	8270C SIM	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	METHOD	300.0	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	METHOD	314.0	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361771	N	METHOD	7471A	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3050B	6010B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3050B	6020	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3060A	7199	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8015B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8015M	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8082	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8270C	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	3550B	8270C SIM	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	5035	8015M	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	300.0	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	314.0	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	7471A	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	8015B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361779	N	METHOD	8015M	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3050B	6010B	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3050B	6020	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3060A	7199	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3550B	8082	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3550B	8270C	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	3550B	8270C SIM	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	METHOD	300.0	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	METHOD	314.0	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361768	N	METHOD	7471A	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3050B	6010B	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3050B	6020	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3060A	7199	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3550B	8082	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3550B	8270C	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	3550B	8270C SIM	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	METHOD	300.0	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	METHOD	314.0	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361769	N	METHOD	7471A	III
01-Aug-2011	TB-080111	6361780	TB	5030B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3546	1625C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8082	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8270C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	3550B	8270C SIM	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	5035	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	8330	8330A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	8315A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361772	N	METHOD	9012B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3546	1625C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8082	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8270C	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	3550B	8270C SIM	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	5035	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	8330	8330A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	8315A	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361773	MS	METHOD	9012B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0DU	6361775	DUP	METHOD	9012B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3050B	6010B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3050B	6020	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3060A	7199	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3546	1625C	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8015M	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8082	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8270C	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	3550B	8270C SIM	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	5035	8015M	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	8330	8330A	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	300.0	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	314.0	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	7471A	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	8015M	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	8315A	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361781	FD	METHOD	9012B	III

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Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	DUP22-SA5DN-QC-080111	P361781	FD	METHOD	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111MSD	P361781M240123A	MSD	METHOD	8315A	III
01-Aug-2011	DUP22-SA5DN-QC-080111MSD	P361781M322139A	MSD	METHOD	8015B	III
01-Aug-2011	DUP22-SA5DN-QC-080111MS	P361781R240104A	MS	METHOD	8315A	III
01-Aug-2011	DUP22-SA5DN-QC-080111MS	P361781R322124A	MS	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3050B	6010B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3050B	6020	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3060A	7199	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3546	1625C	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8082	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8270C	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	3550B	8270C SIM	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	5035	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	8330	8330A	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	300.0	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	314.0	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	7471A	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	8015B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	8015M	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	8315A	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361776	N	METHOD	9012B	III

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Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.4		0.88	MDL	1.1	PQL	mg/Kg	J	FD
Nitrate-NO3	1.5	J	0.88	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.5		0.87	MDL	1.1	PQL	mg/Kg	J	FD

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	19500		2.73	MDL	21.8	PQL	mg/Kg	J	E, A
MAGNESIUM	5670		0.480	MDL	10.9	PQL	mg/Kg	J	A
POTASSIUM	3240		12.3	MDL	54.5	PQL	mg/Kg	J	Q, A

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	323		0.382	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.59	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.69	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 *Collected:* 8/1/2011 10:15:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2660		2.52	MDL	20.2	PQL	mg/Kg	J	E, A
MAGNESIUM	4500		0.443	MDL	10.1	PQL	mg/Kg	J	A
POTASSIUM	2880		11.4	MDL	50.4	PQL	mg/Kg	J	Q, A
SODIUM	94.1	J	6.00	MDL	101	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-127-SA6-SB-2.0-3.0 **Collected: 8/1/2011 10:15:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	319		0.353	MDL	10.1	PQL	mg/Kg	J	Q
TIN	2.53	J	0.322	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.25	J	0.463	MDL	5.04	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 12:01:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5740		2.65	MDL	21.2	PQL	mg/Kg	J	E, A
MAGNESIUM	5100		0.466	MDL	10.6	PQL	mg/Kg	J	A
POTASSIUM	3370		12.0	MDL	53.0	PQL	mg/Kg	J	Q, A

Sample ID: SL-170-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 12:01:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	416		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.59	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.55	J	0.488	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: REA** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	34200		2.84	MDL	22.7	PQL	mg/Kg	J	E, A
MAGNESIUM	6560		0.499	MDL	11.3	PQL	mg/Kg	J	A
POTASSIUM	3690		12.8	MDL	56.7	PQL	mg/Kg	J	Q, A

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	292		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.83	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.66	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 10:03:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	38600		2.78	MDL	22.2	PQL	mg/Kg	J	E, A
MAGNESIUM	6220		0.489	MDL	11.1	PQL	mg/Kg	J	A
POTASSIUM	3170		12.5	MDL	55.5	PQL	mg/Kg	J	Q, A

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 10:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	283		0.389	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.54	J	0.355	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.87	J	0.511	MDL	5.55	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 10:05:00 **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	22100		2.83	MDL	22.7	PQL	mg/Kg	J	E, A
MAGNESIUM	5670		0.498	MDL	11.3	PQL	mg/Kg	J	A
POTASSIUM	2470		12.8	MDL	56.6	PQL	mg/Kg	J	Q, A

Sample ID: SL-173-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 10:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	201		0.396	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.78	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	2.38	J	0.521	MDL	5.66	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 2:45:00 PM **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	18700		2.73	MDL	21.8	PQL	mg/Kg	J	E, A
MAGNESIUM	4810		0.480	MDL	10.9	PQL	mg/Kg	J	A
POTASSIUM	2960		12.3	MDL	54.5	PQL	mg/Kg	J	Q, A
SODIUM	98.8	J	6.49	MDL	109	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-175-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 2:45:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	334		0.382	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.85	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.03	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

Sample ID: **SL-175-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 2:53:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	16300		2.79	MDL	22.3	PQL	mg/Kg	J	E, A
MAGNESIUM	5930		0.491	MDL	11.2	PQL	mg/Kg	J	A
POTASSIUM	2540		12.6	MDL	55.8	PQL	mg/Kg	J	Q, A

Sample ID: **SL-175-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 2:53:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	183		0.391	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.63	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.62	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: **SL-176-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 8:21:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	15100		2.68	MDL	21.4	PQL	mg/Kg	J	E, A
MAGNESIUM	5320		0.471	MDL	10.7	PQL	mg/Kg	J	A
POTASSIUM	3350		12.1	MDL	53.5	PQL	mg/Kg	J	Q, A

Sample ID: **SL-176-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 8:21:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	422		0.375	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.37	J	0.343	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-176-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 8:23:00 AM **Analysis Type:** REA **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	13400		2.75	MDL	22.0	PQL	mg/Kg	J	E, A
MAGNESIUM	5750		0.484	MDL	11.0	PQL	mg/Kg	J	A
POTASSIUM	2850		12.4	MDL	54.9	PQL	mg/Kg	J	Q, A

Sample ID: SL-176-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 8:23:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	186		0.385	MDL	11.0	PQL	mg/Kg	J	Q
TIN	3.01	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.01	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0620	MDL	0.428	PQL	mg/Kg	J	Z

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** REA2 **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.563		0.0535	MDL	0.107	PQL	mg/Kg	J	Q, E

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.184	J	0.0791	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	7.30		0.0855	MDL	0.428	PQL	mg/Kg	J	Q
CADMIUM	0.504		0.0470	MDL	0.107	PQL	mg/Kg	J	Q
COPPER	17.1		0.0855	MDL	0.428	PQL	mg/Kg	J	Q
LEAD	10.9		0.0109	MDL	0.214	PQL	mg/Kg	J	Q, E
NICKEL	23.0		0.107	MDL	0.428	PQL	mg/Kg	J	Q
SILVER	0.126		0.0152	MDL	0.107	PQL	mg/Kg	J	Q, FD
THALLIUM	0.394		0.0321	MDL	0.107	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 10:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0590	MDL	0.407	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 10:15:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.667		0.0509	MDL	0.102	PQL	mg/Kg	J	Q, E

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 10:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0954	J	0.0753	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	10.1		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
CADMIUM	0.772		0.0448	MDL	0.102	PQL	mg/Kg	J	Q
COPPER	9.48		0.0814	MDL	0.407	PQL	mg/Kg	J	Q
LEAD	17.0		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E
NICKEL	11.8		0.102	MDL	0.407	PQL	mg/Kg	J	Q
SILVER	0.0639	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.241		0.0305	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0633	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.572		0.0546	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0834	J	0.0808	MDL	0.218	PQL	mg/Kg	J	Z, Q
ARSENIC	5.60		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
CADMIUM	0.319		0.0480	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-170-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 12:01:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	14.1		0.0873	MDL	0.437	PQL	mg/Kg	J	Q
LEAD	8.64		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E
NICKEL	15.2		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0484	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.250		0.0327	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: REA2** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.529		0.0567	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.202	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	7.70		0.0908	MDL	0.454	PQL	mg/Kg	J	Q
CADMIUM	0.393		0.0499	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	17.0		0.0908	MDL	0.454	PQL	mg/Kg	J	Q
LEAD	10.6		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, E
NICKEL	27.1		0.113	MDL	0.454	PQL	mg/Kg	J	Q
SILVER	0.0559	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.388		0.0340	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 10:03:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0963	J	0.0644	MDL	0.444	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-173-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 10:03:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.494		0.0555	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: **SL-173-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 10:03:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.154	J	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q
ARSENIC	8.38		0.0888	MDL	0.444	PQL	mg/Kg	J	Q
CADMIUM	0.408		0.0489	MDL	0.111	PQL	mg/Kg	J	Q
COPPER	16.4		0.0888	MDL	0.444	PQL	mg/Kg	J	Q
LEAD	9.81		0.0113	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	22.8		0.111	MDL	0.444	PQL	mg/Kg	J	Q
SILVER	0.0398	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.323		0.0333	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SL-173-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 10:05:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0869	J	0.0657	MDL	0.453	PQL	mg/Kg	J	Z

Sample ID: **SL-173-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 10:05:00** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.562		0.0566	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: **SL-173-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 10:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.140	J	0.0838	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	9.02		0.0906	MDL	0.453	PQL	mg/Kg	J	Q
CADMIUM	0.122		0.0498	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	31.2		0.0906	MDL	0.453	PQL	mg/Kg	J	Q
LEAD	9.66		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, E
NICKEL	22.8		0.113	MDL	0.453	PQL	mg/Kg	J	Q
SILVER	0.0429	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.398		0.0340	MDL	0.113	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-175-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 2:45:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.132	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z

Sample ID: **SL-175-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 2:45:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.561		0.0529	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: **SL-175-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 2:45:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0784	MDL	0.212	PQL	mg/Kg	J	Z, Q
ARSENIC	5.66		0.0847	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.311		0.0466	MDL	0.106	PQL	mg/Kg	J	Q
COPPER	13.7		0.0847	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	9.31		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E
NICKEL	19.2		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0517	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z, Q, FD
THALLIUM	0.341		0.0318	MDL	0.106	PQL	mg/Kg	J	Q

Sample ID: **SL-175-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 2:53:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.102	J	0.0641	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: **SL-175-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 2:53:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.646		0.0553	MDL	0.111	PQL	mg/Kg	J	Q, E

Sample ID: **SL-175-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 2:53:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.223		0.0818	MDL	0.221	PQL	mg/Kg	J	Q
ARSENIC	9.80		0.0884	MDL	0.442	PQL	mg/Kg	J	Q
CADMIUM	0.190		0.0486	MDL	0.111	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-175-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 2:53:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	19.8		0.0884	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	11.6		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	26.6		0.111	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0771	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, Q
THALLIUM	0.412		0.0332	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0627	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.590		0.0540	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-176-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 8:21:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0800	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	5.94		0.0865	MDL	0.432	PQL	mg/Kg	J	Q
CADMIUM	0.251		0.0476	MDL	0.108	PQL	mg/Kg	J	Q
COPPER	15.5		0.0865	MDL	0.432	PQL	mg/Kg	J	Q
LEAD	9.16		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, E
NICKEL	17.8		0.108	MDL	0.432	PQL	mg/Kg	J	Q
SILVER	0.0576	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.318		0.0324	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: SL-176-SA5DN-SB-9.0-10.0 ***Collected:*** 8/1/2011 8:23:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.105	J	0.0656	MDL	0.453	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-176-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 8:23:00 AM *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.575		0.0566	MDL	0.113	PQL	mg/Kg	J	Q, E

Sample ID: SL-176-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 8:23:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.155	J	0.0837	MDL	0.226	PQL	mg/Kg	J	Z, Q
ARSENIC	8.96		0.0905	MDL	0.453	PQL	mg/Kg	J	Q
CADMIUM	0.121		0.0498	MDL	0.113	PQL	mg/Kg	J	Q
COPPER	17.6		0.0905	MDL	0.453	PQL	mg/Kg	J	Q
LEAD	11.6		0.0115	MDL	0.226	PQL	mg/Kg	J	Q, E
NICKEL	22.8		0.113	MDL	0.453	PQL	mg/Kg	J	Q
SILVER	0.0638	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.404		0.0339	MDL	0.113	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 *Collected:* 8/1/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 12:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: DE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 7199 **Matrix:** SO

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 12:02:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.47	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 2:45:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.60	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 2:53:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.61	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-9.0-10.0 **Collected:** 8/1/2011 8:23:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS **Method:** 7471A **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 **Collected:** 8/1/2011 2:52:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0074	U	0.0074	MDL	0.105	PQL	mg/Kg	UJ	FD

Sample ID: SL-127-SA6-SB-2.0-3.0 **Collected:** 8/1/2011 10:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0375	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected:** 8/1/2011 10:03:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0113	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 7471A **Matrix:** SO

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0142	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z, FD

Method Category: SVOA **Method:** 1625C **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	156		18.4	MDL	36.7	PQL	ng/Kg	J	FD

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	370		184	MDL	367	PQL	ng/Kg	J	FD

Method Category: SVOA **Method:** 8015M **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	6.0		0.88	MDL	2.6	PQL	mg/Kg	J	FD
EFH (C30-C40)	22		0.88	MDL	2.6	PQL	mg/Kg	J	FD

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q
Propylene glycol	5.5	U	5.5	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	17		2.2	MDL	6.6	PQL	mg/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 Laboratory: LL

EDD Filename: PrepDE213_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA **Method:** 8015M **Matrix:** SO

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	76		2.2	MDL	6.6	PQL	mg/Kg	J	FD

Method Category: SVOA **Method:** 8082 **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.92	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z, FD
Aroclor 5460	1.7	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z, FD

Sample ID: SL-170-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 12:02:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.89	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 10:03:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.65	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 10:05:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.67	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	2.7		0.43	MDL	1.9	PQL	ug/Kg	J	FD
Aroclor 5460	3.7		1.1	MDL	3.6	PQL	ug/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: PrepDE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: **SL-176-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 8:21:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z
Aroclor 5460	1.3	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

Sample ID: **SL-176-SA5DN-SB-9.0-10.0** ***Collected:*** **8/1/2011 8:23:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.91	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **DUP22-SA5DN-QC-080111** ***Collected:*** **8/1/2011 2:52:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	18	MDL	370	PQL	ug/Kg	J	Z

Sample ID: **SL-127-SA6-SB-2.0-3.0** ***Collected:*** **8/1/2011 10:15:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	66	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	68	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	88	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	58	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	39	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	77	J	17	MDL	170	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	17	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	93	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	45	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	96	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: **SL-170-SA5DN-SB-4.0-5.0** ***Collected:*** **8/1/2011 12:01:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	25	J	18	MDL	180	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	42	J	18	MDL	370	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 2:45:00 PM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q

Method Category: SVOA

Method: 8270C SIM **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 ***Collected:*** 8/1/2011 2:52:00 PM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.90	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.73	U	0.73	MDL	1.8	PQL	ug/Kg	UJ	FD
CHRYSENE	3.6		0.37	MDL	1.8	PQL	ug/Kg	J	FD
FLUORANTHENE	1.0	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	2.8		0.73	MDL	1.8	PQL	ug/Kg	J	FD
PYRENE	1.3	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-127-SA6-SB-2.0-3.0 ***Collected:*** 8/1/2011 10:15:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.2	J	1.7	MDL	8.6	PQL	ug/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-4.0-5.0 ***Collected:*** 8/1/2011 12:01:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	0.81	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: PrepDE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-170-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 12:02:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.75	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 10:03:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.84	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.8	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.78	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-173-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 10:05:00** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-4.0-5.0 **Collected: 8/1/2011 2:45:00 PM** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.81	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.83	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	1.4	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	0.86	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	0.87	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-175-SA5DN-SB-9.0-10.0 **Collected: 8/1/2011 2:53:00 PM** **Analysis Type: RES-BASE/NEUTRAL** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory:** LL

EDD Filename: PrepDE213_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-176-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 8:21:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	1.4	J	0.74	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 8:23:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.83	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.2	J	6.9	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA **Method:** 8330A **Matrix:** SO

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	880	U	880	MDL	2600	PQL	ug/Kg	UJ	L

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	880	U	880	MDL	2600	PQL	ug/Kg	UJ	L

Sample ID: SL-175-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 2:53:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	920	U	920	MDL	2800	PQL	ug/Kg	UJ	L

Method Category: VOA **Method:** 8015B **Matrix:** SO

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* REA3 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
m-Terphenyl	1.7	U	1.7	MDL	3.9	PQL	mg/Kg	UJ	Q
p-Terphenyl	1.7	U	1.7	MDL	3.9	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: PrepDE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category:	VOA		
Method:	8015B	*Matrix:*	SO

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE213

Method Blank Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21708BB220925	8/12/2011 9:25:00 AM	BORON	0.499 mg/Kg	DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0
P21708BB221518	8/11/2011 3:18:00 PM	CALCIUM	7.85 mg/Kg	DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0
P21708BB221539	8/8/2011 3:39:00 PM	IRON PHOSPHORUS STRONTIUM TIN	3.78 mg/Kg 0.944 mg/Kg 0.0480 mg/Kg 1.71 mg/Kg	DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP22-SA5DN-QC-080111(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-127-SA6-SB-2.0-3.0(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	TIN	2.59 mg/Kg	2.59U mg/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	TIN	2.83 mg/Kg	2.83U mg/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	TIN	2.63 mg/Kg	2.63U mg/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	36 55 57	49 - -	59.00-109.00 63.00-107.00 63.00-107.00	31 (20.00) 28 (20.00) 26 (20.00)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	EFH (C21-C30)	578	601	49.00-123.00	-	EFH (C21-C30)	No Qual, Diluted Out
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	EFH (C12-C14) EFH (C15-C20) EFH (C30-C40) EFH (C8-C11)	0 0 -325 0	0 0 -314 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- - - -	EFH (C12-C14) EFH (C15-C20) EFH (C30-C40) EFH (C8-C11)	No Qual, Diluted Out

Method: 8015B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	m-Terphenyl p-Terphenyl	70 74	73 -	75.00-125.00 75.00-125.00	- -	m-Terphenyl p-Terphenyl	J(all detects) UJ(all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	ARSENIC CADMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	139 130 128 159 - - - - 174	143 138 137 165 134 131 132 130 180	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	ARSENIC CADMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) V, Zn, No Qual, >4x
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	ANTIMONY	42	44	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	MOLYBDENUM	-	127	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	BARIUM	218	304	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	ALUMINUM	831	950	75.00-125.00	-	ALUMINUM	J(all detects) Al, Mg, Ti No Qual, >4x
	MAGNESIUM	171	256	75.00-125.00	-	MAGNESIUM	
	POTASSIUM	-	163	75.00-125.00	-	POTASSIUM	
	TITANIUM	132	194	75.00-125.00	-	TITANIUM	
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	CALCIUM	-790	139	75.00-125.00	23 (20.00)	CALCIUM	J(all detects) UJ(all non-detects) No Qual %R, >4x
	IRON	-1590	-1481	75.00-125.00	-	IRON	

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	PHOSPHORUS	65	-	75.00-125.00	-	PHOSPHORUS	J(all detects) UJ(all non-detects)

Method: 1625C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	N-NITROSODIMETHYLAMINE	54	53	70.00-130.00	-	N-NITROSODIMETHYLAMINE	No Qual, Diluted Out

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	1,2-Diphenylhydrazine/Azobenzen 2-METHYLPHENOL BENZOIC ACID Di-n-octylphthalate	- 118 - 130	133 - - -	71.00-129.00 75.00-111.00 10.00-173.00 56.00-126.00	- - 91 (30.00) -	1,2-Diphenylhydrazine/Azobenz 2-METHYLPHENOL BENZOIC ACID Di-n-octylphthalate	J(all detects)
SL-175-SA5DN-SB-4.0-5.0MS SL-175-SA5DN-SB-4.0-5.0MSD (SL-175-SA5DN-SB-4.0-5.0)	1,3-DICHLOROBENZENE BENZIDINE	60 22	- 23	63.00-109.00 35.00-141.00	- -	1,3-DICHLOROBENZENE BENZIDINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	FLUORIDE	47	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	LEAD MOLYBDENUM	48 23	20.00 20.00	J(all detects) UJ(all non-detects)

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	HEXAVALENT CHROMIUM	45	20.00	No Qual, OK by Difference

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-175-SA5DN-SB-4.0-5.0DUP (DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)	MERCURY	43	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8330A
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12186AQ241949A (DUP22-SA5DN-QC-080111 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0)	Nitroglycerin	79	-	80.00-120.00	-	Nitroglycerin	J (all detects) UJ (all non-detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21708BQ221522	ALUMINUM	152	-	80.00-120.00	-	ALUMINUM	
P21708BQ221543	IRON	132	-	80.00-120.00	-	IRON	
(DUP22-SA5DN-QC-080111	MAGNESIUM	125	-	80.00-120.00	-	MAGNESIUM	
SL-127-SA6-SB-2.0-3.0	TITANIUM	182	-	80.00-120.00	-	TITANIUM	
SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)							No Qual, SRM within QC limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P3LDLCSQ261043	4-BROMOPHENYL-PHENYLETH	118	-	79.00-117.00	-	4-BROMOPHENYL-PHENYLET	
(DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0)							J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
MOISTURE	9.2	9.2	0		No Qualifiers Applied

Method: 1625C
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
N-NITROSODIMETHYLAMINE	370	156	81	50.00	J(all detects)

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
Nitrate-NO3	2.3	1.5	42	50.00	No Qualifiers Applied
FLUORIDE	2.5	4.4	55	50.00	J(all detects)

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
ALUMINUM	20800	23400	12	50.00	No Qualifiers Applied
BORON	8.12	10.2	23	50.00	
CALCIUM	18700	19500	4	50.00	
IRON	23100	24200	5	50.00	
LITHIUM	23.5	24.2	3	50.00	
MAGNESIUM	4810	5670	16	50.00	
MANGANESE	317	317	0	50.00	
PHOSPHORUS	334	323	3	50.00	
POTASSIUM	2960	3240	9	50.00	
SODIUM	98.8	111	12	50.00	
STRONTIUM	32.3	35.7	10	50.00	
TIN	2.85	2.59	10	50.00	
TITANIUM	1260	1250	1	50.00	
Zirconium	2.03	2.69	28	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg) SL-175-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP22-SA5DN-QC-080111	Sample RPD	eQAPP RPD	Flag
ANTIMONY	0.163	0.184	12	50.00	
ARSENIC	5.66	7.30	25	50.00	
BARIUM	136	158	15	50.00	
BERYLLIUM	0.792	0.900	13	50.00	
CADMIUM	0.311	0.504	47	50.00	
CHROMIUM	27.1	33.8	22	50.00	
COBALT	8.30	9.84	17	50.00	
COPPER	13.7	17.1	22	50.00	No Qualifiers Applied
LEAD	9.31	10.9	16	50.00	
MOLYBDENUM	0.561	0.563	0	50.00	
NICKEL	19.2	23.0	18	50.00	
SELENIUM	0.132	0.127	4	50.00	
THALLIUM	0.341	0.394	14	50.00	
VANADIUM	49.7	63.6	25	50.00	
ZINC	75.9	83.3	9	50.00	
SILVER	0.0517	0.126	84	50.00	J(all detects)

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg) SL-175-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP22-SA5DN-QC-080111	Sample RPD	eQAPP RPD	Flag
HEXAVALENT CHROMIUM	0.60	0.50	18	50.00	No Qualifiers Applied

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg) SL-175-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP22-SA5DN-QC-080111	Sample RPD	eQAPP RPD	Flag
MERCURY	0.0142	0.105 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: SO

Analyte	Concentration (mg/Kg) SL-175-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP22-SA5DN-QC-080111	Sample RPD	eQAPP RPD	Flag
EFH (C21-C30)	17	6.0	96	50.00	J(all detects)
EFH (C30-C40)	76	22	110	50.00	

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg) SL-175-SA5DN-SB-4.0-5.0	Concentration (ug/Kg) DUP22-SA5DN-QC-080111	Sample RPD	eQAPP RPD	Flag
AROCLOR 1260	2.7	0.92	98	50.00	J(all detects)
Aroclor 5460	3.7	1.7	74	50.00	

Field Duplicate RPD Report

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
2-METHYLNAPHTHALENE	0.81	0.90	11	50.00	No Qualifiers Applied
BENZO(B)FLUORANTHENE	2.0	1.9	5	50.00	
FLUORANTHENE	0.86	1.0	15	50.00	
PYRENE	0.87	1.3	40	50.00	
BENZO(A)PYRENE	0.83	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(G,H,I)PERYLENE	1.4	1.8 U	200	50.00	
CHRYSENE	1.0	3.6	113	50.00	
PHENANTHRENE	1.5	2.8	60	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
PH	8.37	8.18	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	TIN	J	2.59	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.69	5.45	PQL	mg/Kg	
SL-127-SA6-SB-2.0-3.0	SODIUM	J	94.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.53	10.1	PQL	mg/Kg	
	Zirconium	J	1.25	5.04	PQL	mg/Kg	
SL-170-SA5DN-SB-4.0-5.0	TIN	J	2.59	10.6	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.55	5.30	PQL	mg/Kg	
SL-170-SA5DN-SB-9.0-10.0	TIN	J	2.83	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.66	5.67	PQL	mg/Kg	
SL-173-SA5DN-SB-4.0-5.0	TIN	J	2.54	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.87	5.55	PQL	mg/Kg	
SL-173-SA5DN-SB-9.0-10.0	TIN	J	2.78	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.38	5.66	PQL	mg/Kg	
SL-175-SA5DN-SB-4.0-5.0	SODIUM	J	98.8	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	10.9	PQL	mg/Kg	
	Zirconium	J	2.03	5.45	PQL	mg/Kg	
SL-175-SA5DN-SB-9.0-10.0	TIN	J	2.63	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.62	5.58	PQL	mg/Kg	
SL-176-SA5DN-SB-4.0-5.0	TIN	J	2.37	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.81	5.35	PQL	mg/Kg	
SL-176-SA5DN-SB-9.0-10.0	TIN	J	3.01	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.01	5.49	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	ANTIMONY	J	0.184	0.214	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.428	PQL	mg/Kg	
SL-127-SA6-SB-2.0-3.0	ANTIMONY	J	0.0954	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.407	PQL	mg/Kg	
	SILVER	J	0.0639	0.102	PQL	mg/Kg	
SL-170-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0834	0.218	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.132	0.437	PQL	mg/Kg	
	SILVER	J	0.0484	0.109	PQL	mg/Kg	
SL-170-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.202	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.454	PQL	mg/Kg	
	SILVER	J	0.0559	0.113	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.154	0.222	PQL	mg/Kg	
	SELENIUM	J	0.0963	0.444	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0398	0.111	PQL	mg/Kg	
SL-173-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.140	0.227	PQL	mg/Kg	
	SELENIUM	J	0.0869	0.453	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0429	0.113	PQL	mg/Kg	
SL-175-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.163	0.212	PQL	mg/Kg	
	SELENIUM	J	0.132	0.424	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0517	0.106	PQL	mg/Kg	
SL-175-SA5DN-SB-9.0-10.0	SELENIUM	J	0.102	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0771	0.111	PQL	mg/Kg	
SL-176-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.170	0.216	PQL	mg/Kg	
	SELENIUM	J	0.113	0.432	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0576	0.108	PQL	mg/Kg	
SL-176-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.155	0.226	PQL	mg/Kg	
	SELENIUM	J	0.105	0.453	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0638	0.113	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-127-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-170-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-170-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.47	1.2	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.60	1.1	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.61	1.1	PQL	mg/Kg	J (all detects)
SL-176-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-127-SA6-SB-2.0-3.0	MERCURY	J	0.0375	0.102	PQL	mg/Kg	J (all detects)
SL-173-SA5DN-SB-4.0-5.0	MERCURY	J	0.0113	0.110	PQL	mg/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	MERCURY	J	0.0142	0.104	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	AROCLOR 1260	J	0.92	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.7	3.6	PQL	ug/Kg	
SL-170-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.89	2.0	PQL	ug/Kg	J (all detects)
SL-173-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.65	1.9	PQL	ug/Kg	J (all detects)
SL-173-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.67	1.9	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-4.0-5.0	AROCLOR 1260	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.3	3.6	PQL	ug/Kg	
SL-176-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.91	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	370	PQL	ug/Kg	J (all detects)
SL-127-SA6-SB-2.0-3.0	BENZO(A)ANTHRACENE	J	66	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	68	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	88	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	58	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	39	170	PQL	ug/Kg	
	CHRYSENE	J	77	170	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	17	170	PQL	ug/Kg	
	FLUORANTHENE	J	93	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	45	170	PQL	ug/Kg	
	PHENANTHRENE	J	32	170	PQL	ug/Kg	
	PYRENE	J	96	170	PQL	ug/Kg	
SL-170-SA5DN-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	25	180	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	42	370	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	20	180	PQL	ug/Kg	

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	2-METHYLNAPHTHALENE	J	0.90	1.8	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-127-SA6-SB-2.0-3.0	ANTHRACENE	J	2.2	8.6	PQL	ug/Kg	J (all detects)
SL-170-SA5DN-SB-4.0-5.0	NAPHTHALENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
SL-170-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.75	1.9	PQL	ug/Kg	
SL-173-SA5DN-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	0.84	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.8	21	PQL	ug/Kg	
	CHRYSENE	J	0.78	1.9	PQL	ug/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE213 **Laboratory: LL**

EDD Filename: DE213_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-173-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	21	PQL	ug/Kg	J (all detects)
SL-175-SA5DN-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.81	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	0.83	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	1.4	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.86	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.8	PQL	ug/Kg	
	PYRENE	J	0.87	1.8	PQL	ug/Kg	
SL-175-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-4.0-5.0	NAPHTHALENE	J	1.4	1.8	PQL	ug/Kg	J (all detects)
SL-176-SA5DN-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	0.83	1.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.2	21	PQL	ug/Kg	
	CHRYSENE	J	0.47	1.9	PQL	ug/Kg	

LDC #: 26533D4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/5/11
SDG #: DE213 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates: 8/1/11
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No qual by MB/CCB.
V.	ICP Interference Check Sample (ICS) Analysis	N	RPD worst
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti, V, Zn >4X (No qual for DP)
VII.	Duplicate Sample Analysis	SW	Pb, Mo J/UJ (No <5XRL)
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ca, Mg, K, Fe J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Soil

1	SL-170-SA5DN-SB-4.0-5.0	11	SL-175-SA5DN-SB-4.0-5.0MS	21	MB	31	
2	SL-170-SA5DN-SB-9.0-10.0	12	SL-175-SA5DN-SB-4.0-5.0MSD	22		32	
3	SL-173-SA5DN-SB-4.0-5.0	13	SL-175-SA5DN-SB-4.0-5.0DUP	23		33	
4	SL-173-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-175-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-175-SA5DN-SB-9.0-10.0	16		26		36	
7	SL-176-SA5DN-SB-4.0-5.0	17		27		37	
8	SL-176-SA5DN-SB-9.0-10.0	18		28		38	
9	SL-127-SA6-SB-2.0-3.0	19		29		39	
10	DUP22-SA5DN-QC-080111	20		30		40	

Notes:

SL-175-SA30N-SB-4.0-5.0 (VE213) & Acfr DE214

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Matrix Spike Lab Sample ID: 6361773MS Matrix Spike Duplicate Lab Sample ID: 6361774MSD
% Solids for Sample: 90.8
Batch Id(s): P21708B, P21726A, P21511B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		20794.5828		22588.3022		22845.2816		215.9454	215.9454	MG/KG	831		950		1			20	P
Antimony	121	0.1631	B	0.7081		0.7381		1.2957	1.2957	MG/KG	42	N	44	N	4		75 - 125	20	MS
Arsenic	75	5.6591		8.6637		8.7372		2.1595	2.1595	MG/KG	139	N	143	N	1		75 - 125	20	MS
Barium	137	136.1826		159.7564		168.9557		10.7973	10.7973	MG/KG	218		304		6			20	MS
Beryllium	9	0.7923		1.7263		1.7917		0.8638	0.8638	MG/KG	108		116		4		75 - 125	20	MS
Boron		8.1171		227.3484		224.5476		215.9454	215.9454	MG/KG	102		100		1		84 - 115	20	P
Cadmium	111	0.3111		1.7187		1.8044		1.0797	1.0797	MG/KG	130	N	138	N	5		75 - 125	20	MS
Calcium		18664.5058		15254.3254		19266.7412		431.8908	431.8908	MG/KG	-790		139		23	*		20	P
Chromium	52	27.0671		39.9283		38.9997		10.7973	10.7973	MG/KG	119		111		2		75 - 125	20	MS
Cobalt	59	8.3044		72.1474		76.0560		53.9864	53.9864	MG/KG	118		125		5		75 - 125	20	MS
Copper	63	13.6522		27.4899		28.4184		10.7973	10.7973	MG/KG	128	N	137	N	3		75 - 125	20	MS
Iron		23140.1012		21423.0673		21541.5544		107.9727	107.9727	MG/KG	-1590		-1481		1			20	P
Lead	208	9.3083		14.4554		14.6389		3.2392	3.2392	MG/KG	159	N	165	N	1		75 - 125	20	MS
Lithium		23.4985		129.0436		130.5822		107.9727	107.9727	MG/KG	98		99		1		82 - 114	20	P
Magnesium		4808.0593		5177.6032		5360.0091		215.9454	215.9454	MG/KG	171		256		3			20	P
Manganese		317.0770		379.9398		364.2394		53.9864	53.9864	MG/KG	116		87		4			20	P
Mercury		0.0142	B	0.1844		0.1866		0.1708	0.1777	MG/KG	100		97		1		65 - 135	20	CV
Molybdenum	98	0.5615		13.4059		14.2913		10.7973	10.7973	MG/KG	119		127	N	6		75 - 125	20	MS
Nickel	60	19.2244		32.3918		33.6443		10.7973	10.7973	MG/KG	122		134	N	4		75 - 125	20	MS
Phosphorus		333.8858		403.8892		434.2846		107.9727	107.9727	MG/KG	65	N	93		7		75 - 125	20	P
Potassium		2955.8512		4296.4639		4715.6485		1079.7270	1079.7270	MG/KG	124		163	N	9		75 - 125	20	P
Selenium	78	0.1325	B	2.5201		2.6712		2.1595	2.1595	MG/KG	111		118		6		75 - 125	20	MS
Silver	107	0.0517	B	13.3282		14.1531		10.7973	10.7973	MG/KG	123		131	N	6		75 - 125	20	MS
Sodium		98.7624	B	1230.1633		1290.1918		1079.7270	1079.7270	MG/KG	105		110		5		75 - 125	20	P
Strontium		32.3003		136.8748		140.3829		107.9727	107.9727	MG/KG	97		100		3		75 - 115	20	P
Thallium	203	0.3408		0.8249		0.9115		0.4319	0.4319	MG/KG	112		132	N	10		75 - 125	20	MS
Tin		2.8504	B	383.9380		389.0580		431.8908	431.8908	MG/KG	88		89		1		80 - 110	20	P
Titanium		1259.1726		1402.1519		1468.5346		107.9727	107.9727	MG/KG	132		194		5			20	P
Vanadium	51	49.6654		61.3069		63.7039		10.7973	10.7973	MG/KG	108		130		4			20	MS
Zinc	66	75.8853		94.7137		95.3615		10.7973	10.7973	MG/KG	174		180		1			20	MS
Zirconium		2.0282	B	105.9849		106.9696		107.9727	107.9727	MG/KG	96		97		1		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE214

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3050B	6010B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3050B	6020	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3060A	7199	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8015B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8015M	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8082	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8270C	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	3550B	8270C SIM	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	5035	8015M	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	300.0	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	314.0	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	7471A	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	8015B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363170	N	METHOD	8015M	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3050B	6010B	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3050B	6020	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3060A	7199	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8082	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8270C	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	3550B	8270C SIM	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	300.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	314.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363164	N	METHOD	7471A	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0DU	P363164D271800A	DUP	METHOD	314.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0DU	P363164D271842A	DUP	METHOD	300.0	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0MS	P363164R271824A	MS	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0MS	P363164R271856A	MS	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3050B	6010B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3050B	6020	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3060A	7199	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8015B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8015M	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8082	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8270C	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	3550B	8270C SIM	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	5035	8015M	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	314.0	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	7471A	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	8015B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363168	N	METHOD	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3050B	6010B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3050B	6020	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3060A	7199	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8015B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8082	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8270C	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	3550B	8270C SIM	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	5035	8015M	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	300.0	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	7471A	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	8015B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363169	N	METHOD	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3005A	6010B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3020A	6020	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8015B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8082	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8270C	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3510C	8270C SIM	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	3520C	1625C	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8260B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	5030B	8260B SIM	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	8330	8330A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	300.0	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	314.0	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	7199	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	8015B	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	Gen Prep	8015M	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	7470A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	8315A	III
02-Aug-2011	EB-SA6-SB-080211	6363167	EB	METHOD	9012B	III
02-Aug-2011	EB-SA6-SB-080211MSD	P363167M321941A	MSD	Gen Prep	8015B	III
02-Aug-2011	EB-SA6-SB-080211MS	P363167R321926A	MS	Gen Prep	8015B	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3050B	6020	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3060A	7199	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8082	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8270C	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	3550B	8270C SIM	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	300.0	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	314.0	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	6850	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363165	N	METHOD	7471A	III
02-Aug-2011	TB-080211	6363171	TB	5030B	8015M	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3050B	6010B	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3050B	6020	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3060A	7199	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8082	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8270C	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	3550B	8270C SIM	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	300.0	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	314.0	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363166	N	METHOD	7471A	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation
N = Normal Sample
FD = Field Duplicate
TB = Trip Blank
FB = Field Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 *Collected:* 8/2/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.0		0.87	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-128-SA6-SB-7.5-8.5 *Collected:* 8/2/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.88	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.3		0.84	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	12.8		0.91	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.1		0.90	MDL	1.1	PQL	mg/Kg	J	E

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.93	MDL	1.2	PQL	mg/Kg	J	E

Method Category: GENCHEM

Method: 314.0 **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 *Collected:* 8/2/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.6	U	9.6	MDL	32.1	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 314.0 **Matrix: SO**

Sample ID: SL-128-SA6-SB-7.5-8.5 *Collected:* 8/2/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.9	U	9.9	MDL	33.0	PQL	ug/Kg	UJ	Q

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	9.7	U	9.7	MDL	32.3	PQL	ug/Kg	UJ	Q

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.1	U	10.1	MDL	33.8	PQL	ug/Kg	UJ	Q

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.0	U	10.0	MDL	33.4	PQL	ug/Kg	UJ	Q

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	10.4	U	10.4	MDL	34.6	PQL	ug/Kg	UJ	Q

Method Category: METALS

Method: 6010B **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0037	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2470		2.60	MDL	20.8	PQL	mg/Kg	J	E, A
MAGNESIUM	3700		0.457	MDL	10.4	PQL	mg/Kg	J	A
PHOSPHORUS	223		0.363	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	2070		11.7	MDL	51.9	PQL	mg/Kg	J	Q, A
SODIUM	70.1	J	6.18	MDL	104	PQL	mg/Kg	J	Z
TIN	2.52	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.09	J	0.478	MDL	5.19	PQL	mg/Kg	J	Z

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2610		2.72	MDL	21.8	PQL	mg/Kg	J	E, A
MAGNESIUM	5370		0.479	MDL	10.9	PQL	mg/Kg	J	A
PHOSPHORUS	428		0.381	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	2900		12.3	MDL	54.4	PQL	mg/Kg	J	Q, A
TIN	2.75	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	0.770	J	0.500	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	2500		2.61	MDL	20.9	PQL	mg/Kg	J	E, A
MAGNESIUM	4660		0.460	MDL	10.5	PQL	mg/Kg	J	A
PHOSPHORUS	443		0.366	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3530		11.8	MDL	52.3	PQL	mg/Kg	J	Q, A
SODIUM	56.2	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	2.56	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	0.996	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: **SL-160-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 8:46:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	186		0.379	MDL	10.8	PQL	mg/Kg	J	Q
TIN	3.30	J	0.347	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-160-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 8:46:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4750		2.71	MDL	21.7	PQL	mg/Kg	J	E, A
MAGNESIUM	7670		0.476	MDL	10.8	PQL	mg/Kg	J	A
POTASSIUM	2800		12.2	MDL	54.1	PQL	mg/Kg	J	Q, A

Sample ID: **SL-162-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 2:00:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	367		0.383	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.92	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.28	J	0.503	MDL	5.46	PQL	mg/Kg	J	Z

Sample ID: **SL-162-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 2:00:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	5020		2.73	MDL	21.9	PQL	mg/Kg	J	E, A
MAGNESIUM	8470		0.481	MDL	10.9	PQL	mg/Kg	J	A
POTASSIUM	6070		12.4	MDL	54.6	PQL	mg/Kg	J	Q, A

Sample ID: **SL-162-SA5DN-SB-9.0-10.0** ***Collected:*** **8/2/2011 3:15:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	4480		2.80	MDL	22.4	PQL	mg/Kg	J	E, A
MAGNESIUM	7640		0.492	MDL	11.2	PQL	mg/Kg	J	A
PHOSPHORUS	366		0.391	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	3830		12.6	MDL	55.9	PQL	mg/Kg	J	Q, A
TIN	2.70	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	4.66	J	0.515	MDL	5.59	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0838	J	0.0768	MDL	0.208	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	13.3		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
CADMIUM	0.120		0.0457	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	6.95		0.0831	MDL	0.415	PQL	mg/Kg	J	Q
LEAD	5.24		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, E
NICKEL	11.5		0.104	MDL	0.415	PQL	mg/Kg	J	Q
SILVER	0.0643	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.253		0.0312	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.109	J	0.0602	MDL	0.415	PQL	mg/Kg	J	Z

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.881		0.0519	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0920	J	0.0797	MDL	0.215	PQL	mg/Kg	J	Z, Q
ARSENIC	5.85		0.0862	MDL	0.431	PQL	mg/Kg	J	Q
CADMIUM	0.147		0.0474	MDL	0.108	PQL	mg/Kg	J	Q
COPPER	8.52		0.0862	MDL	0.431	PQL	mg/Kg	J	Q
LEAD	5.53		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.108	MDL	0.431	PQL	mg/Kg	J	Q
SILVER	0.0364	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q
THALLIUM	0.272		0.0323	MDL	0.108	PQL	mg/Kg	J	Q

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.135	J	0.0625	MDL	0.431	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.579		0.0539	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0995	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	5.78		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
CADMIUM	0.203		0.0455	MDL	0.104	PQL	mg/Kg	J	Q
COPPER	11.3		0.0828	MDL	0.414	PQL	mg/Kg	J	Q
LEAD	5.89		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	15.4		0.104	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0540	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.344		0.0311	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA5** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.161	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **REA6** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.634		0.0518	MDL	0.104	PQL	mg/Kg	J	Q, E

Sample ID: **SL-160-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 8:46:00 AM** ***Analysis Type:*** **REA4** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.229		0.0809	MDL	0.219	PQL	mg/Kg	J	Q
ARSENIC	11.0		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
CADMIUM	0.0677	J	0.0481	MDL	0.109	PQL	mg/Kg	J	Z, Q
COPPER	17.2		0.0875	MDL	0.437	PQL	mg/Kg	J	Q
LEAD	13.8		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, E
NICKEL	25.5		0.109	MDL	0.437	PQL	mg/Kg	J	Q
SILVER	0.0931	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z, Q
THALLIUM	0.420		0.0328	MDL	0.109	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-160-SA5DN-SB-4.0-5.0 ***Collected:*** 8/2/2011 8:46:00 AM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.180	J	0.0634	MDL	0.437	PQL	mg/Kg	J	Z

Sample ID: SL-160-SA5DN-SB-4.0-5.0 ***Collected:*** 8/2/2011 8:46:00 AM ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.730		0.0547	MDL	0.109	PQL	mg/Kg	J	Q, E

Sample ID: SL-162-SA5DN-SB-4.0-5.0 ***Collected:*** 8/2/2011 2:00:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.242		0.0817	MDL	0.221	PQL	mg/Kg	J	Q
ARSENIC	7.46		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
CADMIUM	0.189		0.0486	MDL	0.110	PQL	mg/Kg	J	Q
COPPER	19.5		0.0883	MDL	0.442	PQL	mg/Kg	J	Q
LEAD	11.2		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	27.5		0.110	MDL	0.442	PQL	mg/Kg	J	Q
SILVER	0.0493	J	0.0157	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.459		0.0331	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-162-SA5DN-SB-4.0-5.0 ***Collected:*** 8/2/2011 2:00:00 PM ***Analysis Type:*** REA5 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.191	J	0.0640	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5DN-SB-4.0-5.0 ***Collected:*** 8/2/2011 2:00:00 PM ***Analysis Type:*** REA6 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.583		0.0552	MDL	0.110	PQL	mg/Kg	J	Q, E

Sample ID: SL-162-SA5DN-SB-9.0-10.0 ***Collected:*** 8/2/2011 3:15:00 PM ***Analysis Type:*** REA4 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.189	J	0.0844	MDL	0.228	PQL	mg/Kg	J	Z, Q
ARSENIC	8.78		0.0913	MDL	0.456	PQL	mg/Kg	J	Q
CADMIUM	0.0916	J	0.0502	MDL	0.114	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* REA4 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	16.6		0.0913	MDL	0.456	PQL	mg/Kg	J	Q
LEAD	10.5		0.0116	MDL	0.228	PQL	mg/Kg	J	Q, E
NICKEL	23.6		0.114	MDL	0.456	PQL	mg/Kg	J	Q
SILVER	0.0350	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z, Q
THALLIUM	0.391		0.0342	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* REA5 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.168	J	0.0662	MDL	0.456	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* REA6 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.475		0.0570	MDL	0.114	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7470A **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000036	J	0.000026	MDL	0.00020	PQL	mg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1625C **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 ***Collected:*** 8/2/2011 1:00:00 PM ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.53		0.543	MDL	1.09	PQL	ng/L	J	S

Method Category: SVOA

Method: 8015M **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 ***Collected:*** 8/2/2011 1:00:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C15-C20)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C21-C30)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C30-C40)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L
EFH (C8-C11)	0.097	U	0.097	MDL	0.58	PQL	mg/L	UJ	L

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-128-SA6-SB-4.0-5.0 ***Collected:*** 8/2/2011 12:25:00 ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.61	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5 ***Collected:*** 8/2/2011 8:28:00 AM ***Analysis Type:*** REA2 ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.0	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-128-SA6-SB-7.5-8.5 ***Collected:*** 8/2/2011 12:35:00 ***Analysis Type:*** RES-BASE/NEUTRAL ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.84	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.55	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	10	U	10	MDL	30	PQL	ug/L	UJ	L
4,6-DINITRO-2-METHYLPHENOL	5	U	5	MDL	15	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	0.015	J	0.010	MDL	0.051	PQL	ug/L	J	Z
BENZO(B)FLUORANTHENE	0.013	J	0.010	MDL	0.051	PQL	ug/L	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	0.27	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Butylbenzylphthalate	0.14	J	0.051	MDL	1.0	PQL	ug/L	J	Z
CHRYSENE	0.014	J	0.010	MDL	0.051	PQL	ug/L	J	Z
Diethylphthalate	0.086	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.22	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.20	J	0.051	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.044	J	0.031	MDL	0.051	PQL	ug/L	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: **SL-128-SA6-SB-4.0-5.0** ***Collected:*** **8/2/2011 12:25:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.88	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.98	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.94	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.75	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.89	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-128-SA6-SB-7.5-8.5** ***Collected:*** **8/2/2011 12:35:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: **SL-145-SA6-SB-3.5-4.5** ***Collected:*** **8/2/2011 8:28:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.47	J	0.36	MDL	1.8	PQL	ug/Kg	U	F
PHENANTHRENE	0.73	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-162-SA5DN-SB-4.0-5.0** ***Collected:*** **8/2/2011 2:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	1.5	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.8	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	16	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	11	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Diethylphthalate	12	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Dimethylphthalate	9.8	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-butylphthalate	14	J	6.7	MDL	20	PQL	ug/Kg	J	Z
Di-n-octylphthalate	7.5	J	6.7	MDL	20	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: **SL-162-SA5DN-SB-9.0-10.0** ***Collected:*** **8/2/2011 3:15:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	6.9	MDL	21	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix: AQ**

Sample ID: **EB-SA6-SB-080211** ***Collected:*** **8/2/2011 1:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
4-AMINO-2,6-DINITROTOLUENE	0.34	J	0.30	MDL	0.60	PQL	ug/L	J	Z
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE214

Method Blank Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21548DB220528	8/5/2011 5:28:00 AM	BORON Zirconium	0.0024 mg/L 0.0069 mg/L	EB-SA6-SB-080211

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-080211(RES)	BORON	0.0037 mg/L	0.0037U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P21708BB220925	8/12/2011 9:25:00 AM	BORON	0.499 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0
P21708BB221518	8/11/2011 3:18:00 PM	CALCIUM	7.85 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0
P21708BB221539	8/8/2011 3:39:00 PM	IRON PHOSPHORUS STRONTIUM TIN	3.78 mg/Kg 0.944 mg/Kg 0.0480 mg/Kg 1.71 mg/Kg	SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-128-SA6-SB-4.0-5.0(REA)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-128-SA6-SB-7.5-8.5(REA)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-145-SA6-SB-3.5-4.5(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-160-SA5DN-SB-4.0-5.0(REA)	TIN	3.30 mg/Kg	3.30U mg/Kg
SL-162-SA5DN-SB-4.0-5.0(REA)	TIN	2.92 mg/Kg	2.92U mg/Kg
SL-162-SA5DN-SB-9.0-10.0(REA)	TIN	2.70 mg/Kg	2.70U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**
Matrix: **SO**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-080211(RES)	8/2/2011 1:00:00 PM	ANTHRACENE	0.12 ug/L	SL-128-SA6-SB-4.0-5.0
		BENZO(A)ANTHRACENE	0.015 ug/L	SL-128-SA6-SB-7.5-8.5
		BENZO(B)FLUORANTHENE	0.013 ug/L	SL-145-SA6-SB-3.5-4.5
		BIS(2-ETHYLHEXYL)PHTHALATE	0.27 ug/L	
		Butylbenzylphthalate	0.14 ug/L	
		CHRYSENE	0.014 ug/L	
		Diethylphthalate	0.086 ug/L	
		Di-n-butylphthalate	0.22 ug/L	
		Di-n-octylphthalate	0.2 ug/L	
		NAPHTHALENE	0.044 ug/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-145-SA6-SB-3.5-4.5(RES)	ANTHRACENE	0.47 ug/Kg	1.8U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 314.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-160-SA5DN-SB-4.0-5.0MS (SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0)	PERCHLORATE	37	-	80.00-120.00	-	PERCHLORATE	J (all detects) UJ (all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-160-SA5DN-SB-4.0-5.0DUP (SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-160-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0)	FLUORIDE	26	20.00	J (all detects) UJ (all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12172AQ320723A P12172AY320214A (EB-SA6-SB-080211)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	48 49 48 51 44	50 49 46 46 44	69.00-125.00 77.00-125.00 68.00-124.00 80.00-121.00 46.00-103.00	- - - - -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J (all detects) UJ (all non-detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12206AQ240500A P12206AQ240708A P12206AY240543A (EB-SA6-SB-080211)	2,4-DIAMINO-6-NITROTOLUENE 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	123 123 110 133	- - 110 133	50.00-122.00 50.00-122.00 69.00-107.00 80.00-120.00	- - - -	2,4-DIAMINO-6-NITROTOLUEN 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	J(all detects)
P12206AQ240500A (EB-SA6-SB-080211)	Tetryl	70	-	72.00-141.00	-	Tetryl	J(all detects) UJ(all non-detects)

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12211AY321247A (EB-SA6-SB-080211)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	- - -	130 126 125	78.00-126.00 80.00-124.00 80.00-120.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J(all detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSQ260032 P8WBLCSY260057 (EB-SA6-SB-080211)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	46 63 -	51 -	52.00-131.00 65.00-126.00 10.00-69.00	- - 32 (30.00)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P21708BQ221522 **P21708BQ221543** (SL-128-SA6-SB-4.0-5.0 SL -128-SA6-SB-7.5-8.5 SL -145-SA6-SB-3.5-4.5 SL -160-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-9.0-10.0)	ALUMINUM IRON MAGNESIUM TITANIUM	152 132 125 182	- - - -	80.00-120.00 80.00-120.00 80.00-120.00 80.00-120.00	- - - -	ALUMINUM IRON MAGNESIUM TITANIUM	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P3LDLCSQ261043 (SL-128-SA6-SB-4.0-5.0 SL -128-SA6-SB-7.5-8.5 SL -145-SA6-SB-3.5-4.5 SL -160-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-4.0-5.0 SL -162-SA5DN -SB-9.0-10.0)	4-BROMOPHENYL-PHENYLETH	118	-	73.00-114.00	-	4-BROMOPHENYL-PHENYLET	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-080211	N-Nitrosodimethylamine-d6	172	50.00-150.00	All Target Analytes	J (all detects)

Method: 8270C SIM
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-162-SA5DN-SB-4.0-5.0	Terphenyl-d14	155	45.00-135.00	No Affected Compounds	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE214 | **Laboratory: LL**

EDD Filename: DE214_v1. | **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	BORON	J	0.0037	0.0500	PQL	mg/L	J (all detects)

Method: 7470A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	MERCURY	J	0.000036	0.00020	PQL	mg/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	BENZO(A)ANTHRACENE	J	0.015	0.051	PQL	ug/L	J (all detects)
	BENZO(B)FLUORANTHENE	J	0.013	0.051	PQL	ug/L	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.27	1.0	PQL	ug/L	
	Butylbenzylphthalate	J	0.14	1.0	PQL	ug/L	
	CHRYSENE	J	0.014	0.051	PQL	ug/L	
	Diethylphthalate	J	0.086	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.22	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.20	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.044	0.051	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	4-AMINO-2,6-DINITROTOLUENE	J	0.34	0.60	PQL	ug/L	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	SODIUM	J	70.1	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.52	10.4	PQL	mg/Kg	
	Zirconium	J	1.09	5.19	PQL	mg/Kg	
SL-128-SA6-SB-7.5-8.5	TIN	J	2.75	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	0.770	5.44	PQL	mg/Kg	
SL-145-SA6-SB-3.5-4.5	SODIUM	J	56.2	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.56	10.5	PQL	mg/Kg	
	Zirconium	J	0.996	5.23	PQL	mg/Kg	
SL-160-SA5DN-SB-4.0-5.0	TIN	J	3.30	10.8	PQL	mg/Kg	J (all detects)
SL-162-SA5DN-SB-4.0-5.0	TIN	J	2.92	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.28	5.46	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA5DN-SB-9.0-10.0	TIN	J	2.70	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.66	5.59	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	ANTIMONY	J	0.0838	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.109	0.415	PQL	mg/Kg	
	SILVER	J	0.0643	0.104	PQL	mg/Kg	
SL-128-SA6-SB-7.5-8.5	ANTIMONY	J	0.0920	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.135	0.431	PQL	mg/Kg	
	SILVER	J	0.0364	0.108	PQL	mg/Kg	
SL-145-SA6-SB-3.5-4.5	ANTIMONY	J	0.0995	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.161	0.414	PQL	mg/Kg	
	SILVER	J	0.0540	0.104	PQL	mg/Kg	
SL-160-SA5DN-SB-4.0-5.0	CADMIUM	J	0.0677	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.180	0.437	PQL	mg/Kg	
	SILVER	J	0.0931	0.109	PQL	mg/Kg	
SL-162-SA5DN-SB-4.0-5.0	SELENIUM	J	0.191	0.442	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0493	0.110	PQL	mg/Kg	
SL-162-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.189	0.228	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0916	0.114	PQL	mg/Kg	
	SELENIUM	J	0.168	0.456	PQL	mg/Kg	
	SILVER	J	0.0350	0.114	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.66	1.1	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	EFH (C21-C30)	J	0.61	1.3	PQL	mg/Kg	J (all detects)
SL-145-SA6-SB-3.5-4.5	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-7.5-8.5	AROCLOR 1260	J	0.84	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE214 **Laboratory: LL**

EDD Filename: DE214_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.55	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	ANTHRACENE	J	0.88	1.8	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.98	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.94	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.8	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.75	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.89	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	1.3	1.8	PQL	ug/Kg	
SL-128-SA6-SB-7.5-8.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.6	20	PQL	ug/Kg	J (all detects)
SL-145-SA6-SB-3.5-4.5	ANTHRACENE	J	0.47	1.8	PQL	ug/Kg	J (all detects)
	PHENANTHRENE	J	0.73	1.8	PQL	ug/Kg	
SL-162-SA5DN-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.8	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	16	20	PQL	ug/Kg	
	Butylbenzylphthalate	J	11	20	PQL	ug/Kg	
	Diethylphthalate	J	12	20	PQL	ug/Kg	
	Dimethylphthalate	J	9.8	20	PQL	ug/Kg	
	Di-n-butylphthalate	J	14	20	PQL	ug/Kg	
	Di-n-octylphthalate	J	7.5	20	PQL	ug/Kg	
SL-162-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	21	PQL	ug/Kg	J (all detects)

LDC #: 26859A4

VALIDATION COMPLETENESS WORKSHEET

ADR

Date: 1/27/11

SDG #: DE214

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: W

2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	SW	TB=4

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	SL-160-SA5DN-SB-4.0-5.0 Soil	11	MB	21		31	
2	SL-162-SA5DN-SB-4.0-5.0	12		22		32	
3	SL-162-SA5DN-SB-9.0-10.0	13		23		33	
4	EB-SA6-SB-080211	14		24		34	
5	SL-128-SA6-SB-4.0-5.0 Soil	15		25		35	
6	SL-128-SA6-SB-7.5-8.5	16		26		36	
7	SL-145-SA6-SB-3.5-4.5	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26859A4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Sample Concentration units, unless otherwise noted: ug/L

Soil preparation factor applied: 200X
Associated Samples: All AQ

Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	4									
Hg			0.037	0.185	0.036									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26859A4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

(Y) N N/A Were field blanks identified in this SDG?

(Y) N N/A Were target analytes detected in the field blanks?

Blank units: ug/L **Associated sample units:** mg/Kg

Sampling date: 8/2/11 Soil factor applied 100x, Hg: 167X

Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil (>5X or ND)

Analyte	Blank ID	Sample Identification											
	4	Action Level											
B	3.7	1.85											
Hg	0.036	0.030											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

SL-175-SA5DN-SB-4.0-5.0 (DE213)

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Matrix Spike Lab Sample ID: 6361773MS Matrix Spike Duplicate Lab Sample ID: 6361774MSD
% Solids for Sample: 90.8
Batch Id(s): P21708B, P21726A, P21511B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		20794.5828		22588.3022		22845.2816		215.9454	215.9454	MG/KG	831		950		1			20	P
Antimony	121	0.1631	B	0.7081		0.7381		1.2957	1.2957	MG/KG	42	N	44	N	4		75 - 125	20	MS
Arsenic	75	5.6591		8.6637		8.7372		2.1595	2.1595	MG/KG	139	N	143	N	1		75 - 125	20	MS
Barium	137	136.1826		159.7564		168.9557		10.7973	10.7973	MG/KG	218		304		6			20	MS
Beryllium	9	0.7923		1.7263		1.7917		0.8638	0.8638	MG/KG	108		116		4		75 - 125	20	MS
Boron		8.1171		227.3484		224.5476		215.9454	215.9454	MG/KG	102		100		1		84 - 115	20	P
Cadmium	111	0.3111		1.7187		1.8044		1.0797	1.0797	MG/KG	130	N	138	N	5		75 - 125	20	MS
Calcium		18664.5058		15254.3254		19266.7412		431.8908	431.8908	MG/KG	-790		139		23	*		20	P
Chromium	52	27.0671		39.9283		38.9997		10.7973	10.7973	MG/KG	119		111		2		75 - 125	20	MS
Cobalt	59	8.3044		72.1474		76.0560		53.9864	53.9864	MG/KG	118		125		5		75 - 125	20	MS
Copper	63	13.6522		27.4899		28.4184		10.7973	10.7973	MG/KG	128	N	137	N	3		75 - 125	20	MS
Iron		23140.1012		21423.0673		21541.5544		107.9727	107.9727	MG/KG	-1590		-1481		1			20	P
Lead	208	9.3083		14.4554		14.6389		3.2392	3.2392	MG/KG	159	N	165	N	1		75 - 125	20	MS
Lithium		23.4985		129.0436		130.5822		107.9727	107.9727	MG/KG	98		99		1		82 - 114	20	P
Magnesium		4808.0593		5177.6032		5360.0091		215.9454	215.9454	MG/KG	171		256		3			20	P
Manganese		317.0770		379.9398		364.2394		53.9864	53.9864	MG/KG	116		87		4			20	P
Mercury		0.0142	B	0.1844		0.1866		0.1708	0.1777	MG/KG	100		97		1		65 - 135	20	CV
Molybdenum	98	0.5615		13.4059		14.2913		10.7973	10.7973	MG/KG	119		127	N	6		75 - 125	20	MS
Nickel	60	19.2244		32.3918		33.6443		10.7973	10.7973	MG/KG	122		134	N	4		75 - 125	20	MS
Phosphorus		333.8858		403.8892		434.2846		107.9727	107.9727	MG/KG	65	N	93		7		75 - 125	20	P
Potassium		2955.8512		4296.4639		4715.6485		1079.7270	1079.7270	MG/KG	124		163	N	9		75 - 125	20	P
Selenium	78	0.1325	B	2.5201		2.6712		2.1595	2.1595	MG/KG	111		118		6		75 - 125	20	MS
Silver	107	0.0517	B	13.3282		14.1531		10.7973	10.7973	MG/KG	123		131	N	6		75 - 125	20	MS
Sodium		98.7624	B	1230.1633		1290.1918		1079.7270	1079.7270	MG/KG	105		110		5		75 - 125	20	P
Strontium		32.3003		136.8748		140.3829		107.9727	107.9727	MG/KG	97		100		3		75 - 115	20	P
Thallium	203	0.3408		0.8249		0.9115		0.4319	0.4319	MG/KG	112		132	N	10		75 - 125	20	MS
Tin		2.8504	B	383.9380		389.0580		431.8908	431.8908	MG/KG	88		89		1		80 - 110	20	P
Titanium		1259.1726		1402.1519		1468.5346		107.9727	107.9727	MG/KG	132		194		5			20	P
Vanadium	51	49.6654		61.3069		63.7039		10.7973	10.7973	MG/KG	108		130		4			20	MS
Zinc	66	75.8853		94.7137		95.3615		10.7973	10.7973	MG/KG	174		180		1			20	MS
Zirconium		2.0282	B	105.9849		106.9696		107.9727	107.9727	MG/KG	96		97		1		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG
% Solids for Duplicate: 90.6
Batch ID(s): P21708B, P21726A, P21511B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6361775DUP
% Solids for Sample: 90.8

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			20794.5828		20453.6398		2		P
Antimony	121		0.1631	B	0.1531	B	6		MS
Arsenic	75		5.6591		6.4356		13		MS
Barium	137		136.1826		152.7239		11		MS
Beryllium	9		0.7923		0.8647		9		MS
Boron		5.5	8.1171		8.5860		6		P
Cadmium	111	0.1	0.3111		0.3590		14		MS
Calcium			18664.5058		15254.7108		20		P
Chromium	52		27.0671		28.1546		4		MS
Cobalt	59		8.3044		9.1879		10		MS
Copper	63		13.6522		15.3792		12		MS
Iron			23140.1012		22774.0898		2		P
Lead	208		9.3083		15.1219		48	*	MS
Lithium			23.4985		22.4454		5		P
Magnesium			4808.0593		5156.7947		7		P
Manganese			317.0770		360.3092		13		P
Mercury			0.0142	B	0.0091	B	44		CV
Molybdenum	98		0.5615		0.7105		23	*	MS
Nickel	60		19.2244		19.9416		4		MS
Phosphorus			333.8858		330.3684		1		P
Potassium			2955.8512		3092.9159		5		P
Selenium	78		0.1325	B	0.1308	B	1		MS
Silver	107		0.0517	B	0.0485	B	6		MS
Sodium			98.7624	B	99.9870	B	1		P
Strontium			32.3003		30.9763		4		P
Thallium	203	0.1	0.3408		0.3535		4		MS
Tin			2.8504	B	2.6745	B	6		P
Titanium			1259.1726		1214.1876		4		P
Vanadium	51		49.6654		53.1688		7		MS
Zinc	66		75.8853		84.7472		11		MS
Zirconium			2.0282	B	1.9759	B	3		P

J/UJ

J/UJ

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE213
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6361772BKG Serial Dilution Lab Sample ID: 6361772L
Batch ID(s): P21708B, P21726A
Concentration Units: UG/L

JHJ

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		190702.9600		172045.6500		10		P
Antimony	121	0.7703	B	1.8500	U	100		MS
Arsenic	75	26.7200		27.1500		2		MS
Barium	137	643.0000		622.5000		3		MS
Beryllium	9	3.7410		3.6420		3		MS
Boron		74.4400		106.3500	B	43		P
Cadmium	111	1.4690		1.5650	B	7		MS
Calcium		171168.4500		195448.0500		14	E	P
Chromium	52	127.8000		139.3500		9		MS
Cobalt	59	39.2100		38.5850		2		MS
Copper	63	64.4600		64.9500		1		MS
Iron		212213.2400		198224.8500		7		P
Lead	208	43.9500		43.5650		1		MS
Lithium		215.5000		227.9000		6		P
Magnesium		44093.7500		50199.0500		14	E	P
Manganese		2907.8500		2887.4000		1		P
Molybdenum	98	2.6510		3.2485		23		MS
Nickel	60	90.7700		92.8500		2		MS
Phosphorus		3062.0000		2838.6000		7		P
Potassium		27107.5200		29964.4500		11	E	P
Selenium	78	0.6255	B	1.4500	U	100		MS
Silver	107	0.2441	B	0.3550	U	100		MS
Sodium		905.7300	B	819.6500	B	10		P
Strontium		296.2200		282.3500		5		P
Thallium	203	1.6090		1.8495	B	15		MS
Tin		26.1400	B	24.6000	B	6		P
Titanium		11547.6200		11512.8500		0		P
Vanadium	51	234.5000		256.1000		9		MS
Zinc	66	358.3000		358.1000		0		MS
Zirconium		18.6000	B	26.3000	B	41		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

DE213 2618

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ
FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE215

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3050B	6010B	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3050B	6020	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3060A	7199	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8082	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8270C	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	3550B	8270C SIM	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	300.0	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	314.0	III
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364589	N	METHOD	7471A	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3050B	6010B	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3050B	6020	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3060A	7199	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8082	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8270C	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	3550B	8270C SIM	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	300.0	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	314.0	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364586	N	METHOD	7471A	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3050B	6010B	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3050B	6020	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3060A	7199	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8082	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8270C	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	3550B	8270C SIM	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	300.0	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364587	N	METHOD	7471A	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3050B	6010B	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3050B	6020	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3060A	7199	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8082	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8270C	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	3550B	8270C SIM	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	300.0	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	314.0	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364591	N	METHOD	7471A	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3050B	6010B	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3050B	6020	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3060A	7199	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8082	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8270C	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	3550B	8270C SIM	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	300.0	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	314.0	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364588	N	METHOD	7471A	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3050B	6010B	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3050B	6020	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3060A	7199	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8082	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8270C	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	3550B	8270C SIM	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	314.0	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	6850	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364592	N	METHOD	7471A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3005A	6010B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3020A	6020	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8015B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8082	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8270C	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3510C	8270C SIM	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	3520C	1625C	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8260B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	5030B	8260B SIM	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	8330	8330A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	300.0	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	314.0	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	7199	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	8015B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	Gen Prep	8015M	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	7470A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	8315A	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364590	EB	METHOD	9012B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3050B	6010B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3050B	6020	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3060A	7199	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8082	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8270C	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	3550B	8270C SIM	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	314.0	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364593	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3050B	6010B	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3050B	6020	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3060A	7199	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8082	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	3550B	8270C SIM	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	6850	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364584	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0DUP	P364584D270032A	DUP	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MSD	P364584M262307	MSD	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MS	P364584R262241	MS	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0MS	P364584R270056A	MS	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3050B	6010B	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3050B	6020	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3060A	7199	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8082	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8270C	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	314.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364585	N	METHOD	7471A	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0DUP	P364585D272104B	DUP	METHOD	300.0	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0MS	P364585R271227B	MS	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3050B	6010B	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3050B	6020	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3060A	7199	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8082	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8270C	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	3550B	8270C SIM	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	300.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	314.0	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	6850	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364594	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE215 Laboratory: LL

EDD Filename: PrepDE215_v2 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 Matrix: SO

Sample ID: SL-002-SA6-SB-4.0-5.0 Collected: 8/3/2011 2:30:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.7		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-002-SA6-SB-9.0-10.0 Collected: 8/3/2011 2:33:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-003-SA6-SB-4.0-5.0 Collected: 8/3/2011 8:40:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.92	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-003-SA6-SB-8.5-9.5 Collected: 8/3/2011 8:44:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-004-SA6-SB-1.5-2.5 Collected: 8/3/2011 11:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.84	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA6-SB-0.5-1.5 Collected: 8/3/2011 7:54:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.84	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-188-SA5DN-SB-4.0-5.0 Collected: 8/3/2011 10:57:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.6		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-188-SA5DN-SB-9.0-10.0 Collected: 8/3/2011 11:58:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.6		0.92	MDL	1.2	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory:** LL

EDD Filename: PrepDE215_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.6		0.94	MDL	1.2	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 6010B **Matrix:** AQ

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0103	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
CALCIUM	0.0855	J	0.0705	MDL	0.200	PQL	mg/L	U	B
STRONTIUM	0.00066	J	0.00022	MDL	0.0050	PQL	mg/L	U	B
TITANIUM	0.00047	J	0.00046	MDL	0.0100	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	277		0.391	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.55	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.17	J	0.514	MDL	5.59	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	198		0.371	MDL	10.6	PQL	mg/Kg	J	Q
TIN	2.77	J	0.339	MDL	10.6	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-003-SA6-SB-4.0-5.0 ***Collected:*** 8/3/2011 8:40:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	400		0.390	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.33	J	0.357	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.73	J	0.513	MDL	5.58	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA6-SB-8.5-9.5 ***Collected:*** 8/3/2011 8:44:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.37	J	0.387	MDL	5.38	PQL	mg/Kg	J	Z
PHOSPHORUS	233		0.377	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.35	J	0.344	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	0.838	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 11:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.82	J	0.370	MDL	5.14	PQL	mg/Kg	U	F
PHOSPHORUS	352		0.360	MDL	10.3	PQL	mg/Kg	J	Q
SODIUM	60.9	J	6.12	MDL	103	PQL	mg/Kg	J	Z
TIN	2.60	J	0.329	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	0.371	MDL	5.15	PQL	mg/Kg	U	F
PHOSPHORUS	126		0.361	MDL	10.3	PQL	mg/Kg	J	Q
TIN	2.55	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	319		0.387	MDL	11.1	PQL	mg/Kg	J	Q
SODIUM	107	J	6.58	MDL	111	PQL	mg/Kg	J	Z
TIN	2.69	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.69	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-188-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	237		0.393	MDL	11.2	PQL	mg/Kg	J	Q
TIN	2.62	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.81	J	0.517	MDL	5.62	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	268		0.379	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.52	J	0.347	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.499	MDL	5.42	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	188		0.385	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.69	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.50	J	0.506	MDL	5.50	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	102		0.117	MDL	0.443	PQL	mg/Kg	J	E, E, A

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0819	MDL	0.221	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 ***Collected:*** 8/3/2011 2:30:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.38		0.0885	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.882		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CHROMIUM	23.1		0.133	MDL	0.443	PQL	mg/Kg	J	E, E, A
COBALT	6.70		0.0221	MDL	0.111	PQL	mg/Kg	J	E, E, A
COPPER	9.92		0.0885	MDL	0.443	PQL	mg/Kg	J	E, A, Q
LEAD	8.29		0.0113	MDL	0.221	PQL	mg/Kg	J	E, E, A
NICKEL	12.4		0.111	MDL	0.443	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0516	J	0.0157	MDL	0.111	PQL	mg/Kg	J	Z, E
THALLIUM	0.315		0.0332	MDL	0.111	PQL	mg/Kg	J	Q, E
VANADIUM	47.8		0.0243	MDL	0.111	PQL	mg/Kg	J	E, E, A
ZINC	77.3		0.620	MDL	3.32	PQL	mg/Kg	J	E, A

Sample ID: SL-002-SA6-SB-9.0-10.0 ***Collected:*** 8/3/2011 2:33:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.127	J	0.0627	MDL	0.432	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 ***Collected:*** 8/3/2011 2:33:00 PM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	141		0.115	MDL	0.432	PQL	mg/Kg	J	E, E, A

Sample ID: SL-002-SA6-SB-9.0-10.0 ***Collected:*** 8/3/2011 2:33:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0800	MDL	0.216	PQL	mg/Kg	J	Z, Q
ARSENIC	6.05		0.0865	MDL	0.432	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.923		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	27.0		0.130	MDL	0.432	PQL	mg/Kg	J	E, E, A
COBALT	7.29		0.0216	MDL	0.108	PQL	mg/Kg	J	E, E, A
COPPER	9.88		0.0865	MDL	0.432	PQL	mg/Kg	J	E, A, Q
LEAD	9.02		0.0110	MDL	0.216	PQL	mg/Kg	J	E, E, A
NICKEL	15.0		0.108	MDL	0.432	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0617	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z, E
THALLIUM	0.374		0.0324	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-002-SA6-SB-9.0-10.0** ***Collected:*** **8/3/2011 2:33:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	53.5		0.0238	MDL	0.108	PQL	mg/Kg	J	E, E, A
ZINC	88.0		0.605	MDL	3.24	PQL	mg/Kg	J	E, A

Sample ID: **SL-003-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 8:40:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.222	J	0.0679	MDL	0.468	PQL	mg/Kg	J	Z

Sample ID: **SL-003-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 8:40:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	132		0.124	MDL	0.468	PQL	mg/Kg	J	E, E, A

Sample ID: **SL-003-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 8:40:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.144	J	0.0867	MDL	0.234	PQL	mg/Kg	J	Z, Q
ARSENIC	6.97		0.0937	MDL	0.468	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.875		0.0187	MDL	0.117	PQL	mg/Kg	J	Q, E
CHROMIUM	37.6		0.141	MDL	0.468	PQL	mg/Kg	J	E, E, A
COBALT	9.49		0.0234	MDL	0.117	PQL	mg/Kg	J	E, E, A
COPPER	15.5		0.0937	MDL	0.468	PQL	mg/Kg	J	E, A, Q
LEAD	10.0		0.0119	MDL	0.234	PQL	mg/Kg	J	E, E, A
NICKEL	19.7		0.117	MDL	0.468	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0460	J	0.0166	MDL	0.117	PQL	mg/Kg	J	Z, E
THALLIUM	0.381		0.0351	MDL	0.117	PQL	mg/Kg	J	Q, E
VANADIUM	73.3		0.0258	MDL	0.117	PQL	mg/Kg	J	E, E, A
ZINC	80.0		0.656	MDL	3.51	PQL	mg/Kg	J	E, A

Sample ID: **SL-003-SA6-SB-8.5-9.5** ***Collected:*** **8/3/2011 8:44:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0982	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-003-SA6-SB-8.5-9.5 ***Collected:*** 8/3/2011 8:44:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.3		0.116	MDL	0.439	PQL	mg/Kg	J	E, E, A

Sample ID: SL-003-SA6-SB-8.5-9.5 ***Collected:*** 8/3/2011 8:44:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0812	U	0.0812	MDL	0.220	PQL	mg/Kg	R	Q
ARSENIC	4.56		0.0878	MDL	0.439	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.721		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.102	J	0.0483	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	17.8		0.132	MDL	0.439	PQL	mg/Kg	J	E, E, A
COBALT	5.80		0.0220	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	6.64		0.0878	MDL	0.439	PQL	mg/Kg	J	E, A, Q
LEAD	6.59		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A
NICKEL	10.1		0.110	MDL	0.439	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0423	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.276		0.0329	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	37.8		0.0241	MDL	0.110	PQL	mg/Kg	J	E, E, A
ZINC	59.1		0.615	MDL	3.29	PQL	mg/Kg	J	E, A

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 11:50:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0623	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 11:50:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	85.0		0.107	MDL	0.403	PQL	mg/Kg	J	E, E, A

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 11:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0746	U	0.0746	MDL	0.202	PQL	mg/Kg	R	Q
ARSENIC	3.08		0.0807	MDL	0.403	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.357		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-004-SA6-SB-1.5-2.5 ***Collected:*** 8/3/2011 11:50:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0831	J	0.0444	MDL	0.101	PQL	mg/Kg	J	Z
CHROMIUM	13.4		0.121	MDL	0.403	PQL	mg/Kg	J	E, E, A
COBALT	2.92		0.0202	MDL	0.101	PQL	mg/Kg	J	E, E, A
COPPER	4.78		0.0807	MDL	0.403	PQL	mg/Kg	J	E, A, Q
LEAD	3.56		0.0103	MDL	0.202	PQL	mg/Kg	J	E, E, A
NICKEL	6.83		0.101	MDL	0.403	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0143	U	0.0143	MDL	0.101	PQL	mg/Kg	UJ	E
THALLIUM	0.273		0.0302	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	29.3		0.0222	MDL	0.101	PQL	mg/Kg	J	E, E, A
ZINC	62.0		0.565	MDL	3.02	PQL	mg/Kg	J	E, A

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	91.0		0.114	MDL	0.429	PQL	mg/Kg	J	E, E, A

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0793	U	0.0793	MDL	0.214	PQL	mg/Kg	R	Q
ARSENIC	3.72		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.565		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0677	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
CHROMIUM	16.4		0.129	MDL	0.429	PQL	mg/Kg	J	E, E, A
COBALT	6.10		0.0214	MDL	0.107	PQL	mg/Kg	J	E, E, A
COPPER	16.4		0.0857	MDL	0.429	PQL	mg/Kg	J	E, A, Q
LEAD	4.93		0.0109	MDL	0.214	PQL	mg/Kg	J	E, E, A
NICKEL	8.74		0.107	MDL	0.429	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0323	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, E
THALLIUM	0.278		0.0322	MDL	0.107	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-011-SA6-SB-0.5-1.5 ***Collected:*** 8/3/2011 7:54:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	38.9		0.0236	MDL	0.107	PQL	mg/Kg	J	E, E, A
ZINC	57.5		0.600	MDL	3.22	PQL	mg/Kg	J	E, A

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0667	MDL	0.460	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	161		0.122	MDL	0.460	PQL	mg/Kg	J	E, E, A

Sample ID: SL-188-SA5DN-SB-4.0-5.0 ***Collected:*** 8/3/2011 10:57:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.118	J	0.0852	MDL	0.230	PQL	mg/Kg	J	Z, Q
ARSENIC	7.46		0.0921	MDL	0.460	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.20		0.0184	MDL	0.115	PQL	mg/Kg	J	Q, E
CHROMIUM	36.1		0.138	MDL	0.460	PQL	mg/Kg	J	E, E, A
COBALT	15.6		0.0230	MDL	0.115	PQL	mg/Kg	J	E, E, A
COPPER	13.6		0.0921	MDL	0.460	PQL	mg/Kg	J	E, A, Q
LEAD	9.89		0.0117	MDL	0.230	PQL	mg/Kg	J	E, E, A
NICKEL	22.8		0.115	MDL	0.460	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0624	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z, E
THALLIUM	0.401		0.0345	MDL	0.115	PQL	mg/Kg	J	Q, E
VANADIUM	68.3		0.0253	MDL	0.115	PQL	mg/Kg	J	E, E, A
ZINC	75.5		0.644	MDL	3.45	PQL	mg/Kg	J	E, A

Sample ID: SL-188-SA5DN-SB-9.0-10.0 ***Collected:*** 8/3/2011 11:58:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-188-SA5DN-SB-9.0-10.0** ***Collected:*** **8/3/2011 11:58:00** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	158		0.120	MDL	0.454	PQL	mg/Kg	J	E, E, A

Sample ID: **SL-188-SA5DN-SB-9.0-10.0** ***Collected:*** **8/3/2011 11:58:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0839	MDL	0.227	PQL	mg/Kg	J	Z, Q
ARSENIC	8.25		0.0907	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.19		0.0181	MDL	0.113	PQL	mg/Kg	J	Q, E
CADMIUM	0.110	J	0.0499	MDL	0.113	PQL	mg/Kg	J	Z
CHROMIUM	39.0		0.136	MDL	0.454	PQL	mg/Kg	J	E, E, A
COBALT	13.5		0.0227	MDL	0.113	PQL	mg/Kg	J	E, E, A
COPPER	15.1		0.0907	MDL	0.454	PQL	mg/Kg	J	E, A, Q
LEAD	11.5		0.0116	MDL	0.227	PQL	mg/Kg	J	E, E, A
NICKEL	24.2		0.113	MDL	0.454	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.0886	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, E
THALLIUM	0.374		0.0340	MDL	0.113	PQL	mg/Kg	J	Q, E
VANADIUM	72.7		0.0250	MDL	0.113	PQL	mg/Kg	J	E, E, A
ZINC	74.5		0.635	MDL	3.40	PQL	mg/Kg	J	E, A

Sample ID: **SL-193-SA5DN-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:00:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.113	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z

Sample ID: **SL-193-SA5DN-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:00:00 PM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	185		0.115	MDL	0.434	PQL	mg/Kg	J	E, E, A

Sample ID: **SL-193-SA5DN-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.170	J	0.0802	MDL	0.217	PQL	mg/Kg	J	Z, Q
ARSENIC	7.02		0.0867	MDL	0.434	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.10		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-193-SA5DN-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	44.7		0.130	MDL	0.434	PQL	mg/Kg	J	E, E, A
COBALT	13.7		0.0217	MDL	0.108	PQL	mg/Kg	J	E, E, A
COPPER	24.9		0.0867	MDL	0.434	PQL	mg/Kg	J	E, A, Q
LEAD	12.8		0.0111	MDL	0.217	PQL	mg/Kg	J	E, E, A
NICKEL	31.8		0.108	MDL	0.434	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.503		0.0154	MDL	0.108	PQL	mg/Kg	J	E
THALLIUM	0.432		0.0325	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	77.8		0.0238	MDL	0.108	PQL	mg/Kg	J	E, E, A
ZINC	116		0.607	MDL	3.25	PQL	mg/Kg	J	E, A

Sample ID: **SL-193-SA5DN-SB-9.0-10.0** ***Collected:*** **8/3/2011 3:00:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0753	J	0.0644	MDL	0.444	PQL	mg/Kg	J	Z

Sample ID: **SL-193-SA5DN-SB-9.0-10.0** ***Collected:*** **8/3/2011 3:00:00 PM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	138		0.118	MDL	0.444	PQL	mg/Kg	J	E, E, A

Sample ID: **SL-193-SA5DN-SB-9.0-10.0** ***Collected:*** **8/3/2011 3:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.133	J	0.0822	MDL	0.222	PQL	mg/Kg	J	Z, Q
ARSENIC	6.80		0.0888	MDL	0.444	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.01		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CHROMIUM	37.2		0.133	MDL	0.444	PQL	mg/Kg	J	E, E, A
COBALT	9.85		0.0222	MDL	0.111	PQL	mg/Kg	J	E, E, A
COPPER	14.7		0.0888	MDL	0.444	PQL	mg/Kg	J	E, A, Q
LEAD	9.46		0.0113	MDL	0.222	PQL	mg/Kg	J	E, E, A
NICKEL	22.0		0.111	MDL	0.444	PQL	mg/Kg	J	E, Q, E, A
SILVER	0.179		0.0158	MDL	0.111	PQL	mg/Kg	J	E
THALLIUM	0.381		0.0333	MDL	0.111	PQL	mg/Kg	J	Q, E
VANADIUM	66.8		0.0244	MDL	0.111	PQL	mg/Kg	J	E, E, A
ZINC	71.1		0.622	MDL	3.33	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.53	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.57	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0990	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0112	J	0.0074	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-003-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 8:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0220	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-004-SA6-SB-1.5-2.5 *Collected:* 8/3/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0077	J	0.0072	MDL	0.103	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0080	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0222	J	0.0077	MDL	0.110	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	4.40		0.508	MDL	1.02	PQL	ng/L	J	S

Method Category: SVOA

Method: 8015M **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C12-C14)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C15-C20)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C21-C30)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C30-C40)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L
EFH (C8-C11)	0.10	U	0.10	MDL	0.60	PQL	mg/L	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-003-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 8:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.9	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	10	U	10	MDL	29	PQL	ug/L	UJ	L
4,6-DINITRO-2-METHYLPHENOL	5	U	5	MDL	15	PQL	ug/L	UJ	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,3-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
1,4-DICHLOROBENZENE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q
BENZIDINE	1300	U	1300	MDL	3800	PQL	ug/Kg	UJ	Q
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	Q

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.11	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Butylbenzylphthalate	0.14	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Diethylphthalate	0.091	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-butylphthalate	0.32	J	0.055	MDL	1.1	PQL	ug/L	J	Z
Di-n-octylphthalate	0.22	J	0.055	MDL	1.1	PQL	ug/L	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: **SL-002-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 2:30:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BENZO(G,H,I)PERYLENE	0.81	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.8	J	6.8	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.8	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.84	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: **SL-002-SA6-SB-9.0-10.0** ***Collected:*** **8/3/2011 2:33:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
ANTHRACENE	0.65	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.89	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.98	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.5	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	0.80	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: **SL-003-SA6-SB-4.0-5.0** ***Collected:*** **8/3/2011 8:40:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BENZO(B)FLUORANTHENE	1.2	J	0.78	MDL	2.0	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	7.2	J	7.0	MDL	21	PQL	ug/Kg	J	Z
CHRYSENE	0.47	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: **SL-003-SA6-SB-8.5-9.5** ***Collected:*** **8/3/2011 8:44:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
BIS(2-ETHYLHEXYL)PHTHALATE	7.3	J	6.6	MDL	20	PQL	ug/Kg	J	Z
Butylbenzylphthalate	6.6	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	1.0	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
PYRENE	0.98	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-004-SA6-SB-1.5-2.5 *Collected:* 8/3/2011 11:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	9.2	J	6.2	MDL	19	PQL	ug/Kg	J	Z
Di-n-octylphthalate	13	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-011-SA6-SB-0.5-1.5 *Collected:* 8/3/2011 7:54:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.36	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.59	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.76	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
2-METHYLNAPHTHALENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.8	MDL	20	PQL	ug/Kg	J	Z
NAPHTHALENE	1.5	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.52	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8330A **Matrix: AQ**

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-AMINO-2,6-DINITROTOLUENE	0.54	J	0.30	MDL	0.60	PQL	ug/L	J	Z
Tetryl	0.40	U	0.40	MDL	0.60	PQL	ug/L	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: PrepDE215_v2 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE215

Method Blank Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22448AB221736	8/15/2011 5:36:00 PM	BORON CALCIUM STRONTIUM	0.0067 mg/L 0.0748 mg/L 0.00056 mg/L	EB23-SA5DN-SB-080311

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB23-SA5DN-SB-080311(REA2)	BORON	0.0103 mg/L	0.0103U mg/L
EB23-SA5DN-SB-080311(REA2)	CALCIUM	0.0855 mg/L	0.0855U mg/L
EB23-SA5DN-SB-080311(REA2)	STRONTIUM	0.00066 mg/L	0.00066U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22108CB220608	8/12/2011 6:08:00 AM	ALUMINUM BORON CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	9.51 mg/Kg 0.347 mg/Kg 7.59 mg/Kg 4.32 mg/Kg 1.37 mg/Kg 0.863 mg/Kg 0.0365 mg/Kg 1.58 mg/Kg	SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-002-SA6-SB-4.0-5.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-002-SA6-SB-9.0-10.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-003-SA6-SB-4.0-5.0(RES)	TIN	2.33 mg/Kg	2.33U mg/Kg
SL-003-SA6-SB-8.5-9.5(RES)	TIN	2.35 mg/Kg	2.35U mg/Kg
SL-004-SA6-SB-1.5-2.5(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-011-SA6-SB-0.5-1.5(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-193-SA5DN-SB-4.0-5.0(RES)	TIN	2.52 mg/Kg	2.52U mg/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22126BB221123A	8/11/2011 11:23:00 AM	COPPER	0.206 mg/Kg	SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA6-SB-9.0-10.0MS (SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0)	FLUORIDE	61	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-002-SA6-SB-4.0-5.0MSD (SL-002-SA6-SB-4.0-5.0)	2,4-DINITROPHENOL PENTACHLOROPHENOL	- -	- -	20.00-143.00 28.00-127.00	46 (30.00) 33 (30.00)	2,4-DINITROPHENOL PENTACHLOROPHENOL	J(all detects)
SL-002-SA6-SB-4.0-5.0MS **SL-002-SA6-SB-4.0-5.0MSD** (SL-002-SA6-SB-4.0-5.0)	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZIDINE BIS(2-CHLOROETHOXY)METHA	- 66 29 62	61 62 - 65	63.00-109.00 70.00-100.00 35.00-141.00 75.00-104.00	- - - -	1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE BENZIDINE BIS(2-CHLOROETHOXY)METH	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-002-SA6-SB-9.0-10.0DUP (SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0)	FLUORIDE	34	20.00	J (all detects) UJ (all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12172AQ320723A P12172AY320214A (EB23-SA5DN-SB-080311)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	48 49 48 51 44	50 49 46 46 44	69.00-125.00 77.00-125.00 68.00-124.00 80.00-121.00 46.00-103.00	- - - - -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	J (all detects) UJ (all non-detects)

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12206AQ240500A P12206AQ240708A P12206AY240543A (EB23-SA5DN-SB-080311)	2,4-DIAMINO-6-NITROTOLUENE 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	123 123 110 133	- - 110 133	50.00-122.00 50.00-122.00 69.00-107.00 80.00-120.00	- - - -	2,4-DIAMINO-6-NITROTOLUEN 2,6-Diamino-4-nitrotoluene 3-NITROTOLUENE PETN	J(all detects)
P12206AQ240500A (EB23-SA5DN-SB-080311)	Tetryl	70	-	72.00-141.00	-	Tetryl	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WBLCSQ260032 P8WBLCSY260057 (EB23-SA5DN-SB-080311)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	46 63 -	51 - -	52.00-131.00 65.00-126.00 10.00-69.00	- - 32 (30.00)	2,4-DINITROPHENOL 4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22013EY220828 (EB23-SA5DN-SB-080311)	MERCURY	-	89	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22126BQ221126A (SL-002-SA6-SB-4.0-5.0 SL -002-SA6-SB-9.0-10.0 SL -003-SA6-SB-4.0-5.0 SL -003-SA6-SB-8.5-9.5 SL -004-SA6-SB-1.5-2.5 SL -011-SA6-SB-0.5-1.5 SL -188-SA5DN -SB-4.0-5.0 SL -188-SA5DN -SB-9.0-10.0 SL -193-SA5DN -SB-4.0-5.0 SL -193-SA5DN -SB-9.0-10.0)	ANTIMONY	72	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22108CQ220612 (SL-002-SA6-SB-4.0-5.0 SL -002-SA6-SB-9.0-10.0 SL -003-SA6-SB-4.0-5.0 SL -003-SA6-SB-8.5-9.5 SL -004-SA6-SB-1.5-2.5 SL -011-SA6-SB-0.5-1.5 SL -188-SA5DN -SB-4.0-5.0 SL -188-SA5DN -SB-9.0-10.0 SL -193-SA5DN -SB-4.0-5.0 SL -193-SA5DN -SB-9.0-10.0)	ALUMINUM TITANIUM	132 157	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB23-SA5DN-SB-080311	N-Nitrosodimethylamine-d6	173	50.00-150.00	All Target Analytes	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	BORON	J	0.0103	0.0500	PQL	mg/L	J (all detects)
	CALCIUM	J	0.0855	0.200	PQL	mg/L	
	STRONTIUM	J	0.00066	0.0050	PQL	mg/L	
	TITANIUM	J	0.00047	0.0100	PQL	mg/L	

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.11	1.1	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.14	1.1	PQL	ug/L	
	Diethylphthalate	J	0.091	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.32	1.1	PQL	ug/L	
	Di-n-octylphthalate	J	0.22	1.1	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	4-AMINO-2,6-DINITROTOLUENE	J	0.54	0.60	PQL	ug/L	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	TIN	J	2.55	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.17	5.59	PQL	mg/Kg	
SL-002-SA6-SB-9.0-10.0	TIN	J	2.77	10.6	PQL	mg/Kg	J (all detects)
SL-003-SA6-SB-4.0-5.0	TIN	J	2.33	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.73	5.58	PQL	mg/Kg	
SL-003-SA6-SB-8.5-9.5	BORON	J	5.37	5.38	PQL	mg/Kg	J (all detects)
	TIN	J	2.35	10.8	PQL	mg/Kg	
	Zirconium	J	0.838	5.38	PQL	mg/Kg	
SL-004-SA6-SB-1.5-2.5	BORON	J	3.82	5.14	PQL	mg/Kg	J (all detects)
	SODIUM	J	60.9	103	PQL	mg/Kg	
	TIN	J	2.60	10.3	PQL	mg/Kg	
SL-011-SA6-SB-0.5-1.5	BORON	J	4.55	5.15	PQL	mg/Kg	J (all detects)
	TIN	J	2.55	10.3	PQL	mg/Kg	
SL-188-SA5DN-SB-4.0-5.0	SODIUM	J	107	111	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	11.1	PQL	mg/Kg	
	Zirconium	J	1.69	5.53	PQL	mg/Kg	
SL-188-SA5DN-SB-9.0-10.0	TIN	J	2.62	11.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.81	5.62	PQL	mg/Kg	
SL-193-SA5DN-SB-4.0-5.0	TIN	J	2.52	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.81	5.42	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA5DN-SB-9.0-10.0	TIN	J	2.69	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.50	5.50	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	ANTIMONY	J	0.101	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.443	PQL	mg/Kg	
	SILVER	J	0.0516	0.111	PQL	mg/Kg	
SL-002-SA6-SB-9.0-10.0	ANTIMONY	J	0.110	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.127	0.432	PQL	mg/Kg	
	SILVER	J	0.0617	0.108	PQL	mg/Kg	
SL-003-SA6-SB-4.0-5.0	ANTIMONY	J	0.144	0.234	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.222	0.468	PQL	mg/Kg	
	SILVER	J	0.0460	0.117	PQL	mg/Kg	
SL-003-SA6-SB-8.5-9.5	CADMIUM	J	0.102	0.110	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0982	0.439	PQL	mg/Kg	
	SILVER	J	0.0423	0.110	PQL	mg/Kg	
SL-004-SA6-SB-1.5-2.5	CADMIUM	J	0.0831	0.101	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0623	0.403	PQL	mg/Kg	
SL-011-SA6-SB-0.5-1.5	CADMIUM	J	0.0677	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.429	PQL	mg/Kg	
	SILVER	J	0.0323	0.107	PQL	mg/Kg	
SL-188-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.118	0.230	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.108	0.460	PQL	mg/Kg	
	SILVER	J	0.0624	0.115	PQL	mg/Kg	
SL-188-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.136	0.227	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.110	0.113	PQL	mg/Kg	
	SELENIUM	J	0.120	0.454	PQL	mg/Kg	
	SILVER	J	0.0886	0.113	PQL	mg/Kg	
SL-193-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.170	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.113	0.434	PQL	mg/Kg	
SL-193-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.133	0.222	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0753	0.444	PQL	mg/Kg	

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-188-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.53	1.2	PQL	mg/Kg	J (all detects)
SL-193-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.57	1.1	PQL	mg/Kg	J (all detects)
SL-193-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.51	1.2	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215 **Laboratory: LL**

EDD Filename: DE215_v2. **eQAPP Name: CDM_SSFL_110509**

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	MERCURY	J	0.0990	0.112	PQL	mg/Kg	J (all detects)
SL-002-SA6-SB-9.0-10.0	MERCURY	J	0.0112	0.105	PQL	mg/Kg	J (all detects)
SL-003-SA6-SB-4.0-5.0	MERCURY	J	0.0220	0.109	PQL	mg/Kg	J (all detects)
SL-004-SA6-SB-1.5-2.5	MERCURY	J	0.0077	0.103	PQL	mg/Kg	J (all detects)
SL-188-SA5DN-SB-4.0-5.0	MERCURY	J	0.0080	0.112	PQL	mg/Kg	J (all detects)
SL-188-SA5DN-SB-9.0-10.0	MERCURY	J	0.0222	0.110	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA6-SB-4.0-5.0	Aroclor 5460	J	2.9	3.8	PQL	ug/Kg	J (all detects)

Method: 8270C-SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-4.0-5.0	BENZO(G,H,I)PERYLENE	J	0.81	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.8	20	PQL	ug/Kg	
	CHRYSENE	J	1.8	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.84	1.9	PQL	ug/Kg	
SL-002-SA6-SB-9.0-10.0	ANTHRACENE	J	0.65	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.89	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.98	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.5	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	0.80	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	
SL-003-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.2	2.0	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.2	21	PQL	ug/Kg	
	CHRYSENE	J	0.47	2.0	PQL	ug/Kg	
SL-003-SA6-SB-8.5-9.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.3	20	PQL	ug/Kg	J (all detects)
	Butylbenzylphthalate	J	6.6	20	PQL	ug/Kg	
	CHRYSENE	J	1.0	1.8	PQL	ug/Kg	
	PYRENE	J	0.98	1.8	PQL	ug/Kg	
SL-004-SA6-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.2	19	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	13	19	PQL	ug/Kg	
SL-011-SA6-SB-0.5-1.5	CHRYSENE	J	0.36	1.8	PQL	ug/Kg	J (all detects)
SL-188-SA5DN-SB-4.0-5.0	CHRYSENE	J	0.59	1.9	PQL	ug/Kg	J (all detects)
SL-193-SA5DN-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	0.76	1.9	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.3	1.9	PQL	ug/Kg	
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	20	PQL	ug/Kg	
	NAPHTHALENE	J	1.5	1.9	PQL	ug/Kg	
SL-193-SA5DN-SB-9.0-10.0	CHRYSENE	J	0.52	1.9	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE215

Laboratory: LL

EDD Filename: DE215_v2.

eQAPP Name: CDM_SSFL_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag

LDC #: 26859B4 **VALIDATION COMPLETENESS WORKSHEET** Date: 1/17/17
SDG #: DE215 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	NA	SKM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	~~FB=7~~ TB=7
XV	Field Blanks	SW	EB=7

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	SL-002-SA6-SB-4.0-5.0	11	SL-193-SA5DN-SB-9.0-10.0	21	MB	31	
2	SL-002-SA6-SB-9.0-10.0	12		22		32	
3	SL-003-SA6-SB-4.0-5.0	13		23		33	
4	SL-003-SA6-SB-8.5-9.5	14		24		34	
5	SL-004-SA6-SB-1.5-2.5	15		25		35	
6	SL-011-SA6-SB-0.5-1.5	16		26		36	
7	EB23-SA5DN-SB-080311	17		27		37	
8	SL-188-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-188-SA5DN-SB-9.0-10.0	19		29		39	
10	SL-193-SA5DN-SB-4.0-5.0	20		30		40	

Notes: _____

LDC #: 26859B4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 200X
Sample Concentration units, unless otherwise noted: ug/L Associated Samples: All AQ Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	7									
Ti			0.25	1.25	0.47									

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26859B4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: W
2nd Reviewer: A

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

Y N N/A Were field blanks identified in this SDG?

Y N N/A Were target analytes detected in the field blanks?

Blank units: ug/L **Associated sample units:** mg/Kg

Sampling date: 8/3/11 Soil factor applied 100X

Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil Reason Code: F

Analyte	Blank ID	Sample Identification											
	7	Action Level	5	6									
B	10.3	5.15	3.8	4.6									
Ca	85.5	42.75											
Sr	0.66	0.33											
Ti	0.47	0.235											
Zn	17.2	8.6											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

DE216 = SL-189-SASDN-SB -40-50 & DE215

Background Lab Sample ID: 6366491BKG Matrix Spike Lab Sample ID: 6366492MS Matrix Spike Duplicate Lab Sample ID: 6366493MSD
% Solids for Sample: 91.0
Batch Id(s): P22108C, P22126B, P22111B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		29854.3264		35417.2319		35852.5179		219.7802	213.3789	MG/KG	2531		2811		1			20	P
Antimony	121	0.2826		0.6608		0.5958		1.2680	1.3056	MG/KG	30	N	24	N	10		75 - 125	20	MS
Arsenic	75	8.3407		9.8035		7.7815		2.1133	2.1760	MG/KG	69	N	-26	N	23	*	75 - 125	20	MS
Barium	137	191.4286		187.9966		141.0945		10.5664	10.8802	MG/KG	-32		-463		29	*		20	MS
Beryllium	9	1.2251		2.0619		1.7069		0.8453	0.8704	MG/KG	99		55	N	19		75 - 125	20	MS
Boron		12.6978		216.4714		210.4897		219.7802	213.3789	MG/KG	93		93		3		84 - 115	20	P
Cadmium	111	0.3495		1.5626		1.2839		1.0566	1.0880	MG/KG	115		86		20		75 - 125	20	MS
Calcium		16392.4956		13300.7901		13975.8188		439.5604	426.7577	MG/KG	-703		-566		5			20	P
Chromium	52	52.6813		61.2849		47.0895		10.5664	10.8802	MG/KG	81		-51		26	*		20	MS
Cobalt	59	15.2308		77.8952		61.7125		52.8318	54.4010	MG/KG	119		85		23	*	75 - 125	20	MS
Copper	63	24.5055		34.0448		26.7871		10.5664	10.8802	MG/KG	90		21	N	24	*	75 - 125	20	MS
Iron		30733.0440		32206.8956		30279.5370		109.8901	106.6894	MG/KG	1341		-425		6			20	P
Lead	208	13.5868		16.5046		12.9540		3.1699	3.2641	MG/KG	92		-19		24	*		20	MS
Lithium		25.3890		134.0121		128.4914		109.8901	106.6894	MG/KG	99		97		4		82 - 114	20	P
Magnesium		6573.3769		6880.8736		6833.6253		219.7802	213.3789	MG/KG	140		122		1			20	P
Manganese		385.1527		450.8495		433.3202		54.9451	53.3447	MG/KG	120		90		4			20	P
Mercury		0.0076	U	0.1750		0.1665		0.1787	0.1747	MG/KG	98		95		5		65 - 135	20	CV
Molybdenum	98	0.7629		12.6775		10.4080		10.5664	10.8802	MG/KG	113		89		20		75 - 125	20	MS
Nickel	60	30.9231		40.9975		31.3568		10.5664	10.8802	MG/KG	95		4	N	27	*	75 - 125	20	MS
Phosphorus		375.8385		456.0275		464.5322		109.8901	106.6894	MG/KG	73	N	83		2		75 - 125	20	P
Potassium		5169.2165		6648.5945		6541.3229		1098.9011	1066.8943	MG/KG	135		129		2			20	P
Selenium	78	0.2787	B	2.2802		1.9600		2.1133	2.1760	MG/KG	95		77		15		75 - 125	20	MS
Silver	107	0.0528	B	13.1868		10.5299		10.5664	10.8802	MG/KG	124		96		22	*	75 - 125	20	MS
Sodium		82.5473	B	1141.3648		1087.4309		1098.9011	1066.8943	MG/KG	96		94		5		75 - 125	20	P
Strontium		38.0440		139.4187		136.7758		109.8901	106.6894	MG/KG	92		93		2		75 - 115	20	P
Thallium	203	0.5213		1.0351		0.7958		0.4227	0.4352	MG/KG	122		63	N	26	*	75 - 125	20	MS
Tin		2.3220	B	369.4077		346.3406		439.5604	426.7577	MG/KG	84		81		6		80 - 110	20	P
Titanium		1379.0659		1698.8363		1677.5920		109.8901	106.6894	MG/KG	291		280		1			20	P
Vanadium	51	99.8022		106.0862		80.5571		10.5664	10.8802	MG/KG	59		-177		27	*		20	MS
Zinc	66	102.4176		102.5993		84.0170		10.5664	10.8802	MG/KG	2		-169		20			20	MS
Zirconium		2.2802	B	101.8176		94.7253		109.8901	106.6894	MG/KG	91		87		7		75 - 125	20	P

#Sb: post spike %R, Ag = -177, Cu = -715, Ni = -957

METHODS:
P = ICP Atomic Emission Spectrometer CV = Cold Vapor
MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366491BKG
% Solids for Duplicate: 90.8
Batch ID(s): P22108C, P22126B, P22111B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6366494DUP
% Solids for Sample: 91.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M	
Aluminum			29854.3264		27876.8069		7		P	
Antimony	121	0.2	0.2826		0.1396	B	~~68~~		MS	<5X
Arsenic	75		8.3407		5.7341		37	*	MS	
Barium	137		191.4286		127.6484		40	*	MS	
Beryllium	9		1.2251		0.9009		30	*	MS	
Boron		5.5	12.6978		11.4966		10		P	
Cadmium	111	0.1	0.3495		0.2431		~~36~~		MS	<5X
Calcium			16392.4956		14089.1345		15		P	
Chromium	52		52.6813		35.0769		40	*	MS	
Cobalt	59		15.2308		10.1363		40	*	MS	
Copper	63		24.5055		16.9604		36	*	MS	
Iron			30733.0440		29557.5301		4		P	
Lead	208		13.5868		9.3407		37	*	MS	
Lithium			25.3890		23.2988		9		P	
Magnesium			6573.3769		6139.4390		7		P	
Manganese			385.1527		396.6845		3		P	
Mercury			0.0076	U	0.0076	U			CV	
Molybdenum	98	0.1	0.7629		0.4369		~~54~~	*	MS	by Difference
Nickel	60		30.9231		20.7099		40	*	MS	
Phosphorus			375.8385		360.4448		4		P	
Potassium			5169.2165		4880.6709		6		P	
Selenium	78		0.2787	B	0.2279	B	20		MS	
Silver	107		0.0528	B	0.0397	B	~~28~~		MS	<5X
Sodium			82.5473	B	76.0523	B	8		P	
Strontium			38.0440		33.5604		13		P	
Thallium	203	0.1	0.5213		0.3648		~~35~~	*	MS	<5X
Tin			2.3220	B	2.2302	B	4		P	
Titanium			1379.0659		1250.0963		10		P	
Vanadium	51		99.8022		68.1099		38	*	MS	
Zinc	66		102.4176		71.7802		35	*	MS	
Zirconium			2.2802	B	1.6777	B	~~30~~		P	<5X

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

Difference
Mo: 0.3360 (≤0.220)

DE216 2842

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366491BKG Serial Dilution Lab Sample ID: 6366491L
Batch ID(s): P22108C, P22126B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		271674.3700		271882.4500		0		P
Antimony	121	1.2860		1.8500	U	100		MS
Arsenic	75	37.9500		57.5000		52		MS
Barium	137	871.0000		1230.5000		41	E	MS
Beryllium	9	5.5740		9.1400		64		MS
Boron		115.5500		165.2000	B	43		P
Cadmium	111	1.5900		2.8445		79		MS
Calcium		149171.7100		156798.0500		5		P
Chromium	52	239.7000		345.5000		44	E	MS
Cobalt	59	69.3000		103.4000		49	E	MS
Copper	63	111.5000		167.1500		50	E	MS
Iron		55934.1400		56432.4500		1		P
Lead	208	61.8200		89.2000		44	E	MS
Lithium		231.0400		233.0500		1		P
Magnesium		59817.7300		62820.0500		5		P
Manganese		3504.8900		3806.4000		9		P
Molybdenum	98	3.4710		5.3550		54		MS
Nickel	60	140.7000		209.7500		49	E	MS
Phosphorus		3420.1300		3486.0000		2		P
Potassium		47039.8700		47777.4000		2		P
Selenium	78	1.2680	B	2.0185	B	59		MS
Silver	107	0.2401	B	0.3550	U	100		MS
Sodium		751.1800	B	297.5000	U	100		P
Strontium		346.2000		363.0000		5		P
Thallium	203	2.3720		3.3020		39		MS
Tin		21.1300	B	26.7000	B	26		P
Titanium		12549.5000		13161.0000		5		P
Vanadium	51	454.1000		651.0000		43	E	MS
Zinc	66	466.0000		728.0000		56	E	MS
Zirconium		20.7500	B	23.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

DE216 ZZZZ

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE216

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3050B	6010B	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3050B	6020	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3060A	7199	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3550B	8082	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3550B	8270C	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	3550B	8270C SIM	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	METHOD	300.0	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	METHOD	314.0	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366497	N	METHOD	7471A	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3050B	6010B	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3050B	6020	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3060A	7199	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3550B	8082	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3550B	8270C	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	3550B	8270C SIM	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	METHOD	300.0	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	METHOD	314.0	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366496	N	METHOD	7471A	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3050B	6010B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3050B	6020	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3060A	7199	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3550B	8082	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3550B	8270C	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	3550B	8270C SIM	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	METHOD	300.0	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366491	N	METHOD	7471A	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3050B	6010B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3050B	6020	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3060A	7199	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3550B	8082	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3550B	8270C	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	3550B	8270C SIM	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	METHOD	300.0	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	METHOD	314.0	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366492	MS	METHOD	7471A	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	3050B	6010B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	3050B	6020	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	3060A	7199	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	METHOD	300.0	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	METHOD	314.0	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 D	6366494	DUP	METHOD	7471A	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3050B	6010B	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3050B	6020	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3060A	7199	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3550B	8082	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3550B	8270C	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	3550B	8270C SIM	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	METHOD	300.0	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	METHOD	314.0	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366498	FD	METHOD	7471A	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3050B	6020	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3060A	7199	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3550B	8082	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3550B	8270C	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	3550B	8270C SIM	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	METHOD	300.0	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	METHOD	314.0	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366495	N	METHOD	7471A	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3050B	6010B	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3050B	6020	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3060A	7199	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3550B	8082	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3550B	8270C	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	3550B	8270C SIM	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	METHOD	300.0	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	METHOD	314.0	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366489	N	METHOD	7471A	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3050B	6010B	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3050B	6020	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3060A	7199	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3550B	8082	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3550B	8270C	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	3550B	8270C SIM	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	METHOD	300.0	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	METHOD	314.0	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366490	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.1		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-185-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	10.5		0.93	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.5		0.92	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.95	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	371		0.377	MDL	10.8	PQL	mg/Kg	J	Q
SODIUM	73.1	J	6.40	MDL	108	PQL	mg/Kg	J	Z
TIN	2.19	J	0.344	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.10	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z, E

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	343		0.394	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.53	J	0.360	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	4.39	J	0.518	MDL	5.63	PQL	mg/Kg	J	Z, E

Sample ID: SL-185-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	246		0.396	MDL	11.3	PQL	mg/Kg	J	Q
SODIUM	92.5	J	6.73	MDL	113	PQL	mg/Kg	J	Z
TIN	2.44	J	0.362	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	1.62	J	0.521	MDL	5.66	PQL	mg/Kg	J	Z, E

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	376		0.385	MDL	11.0	PQL	mg/Kg	J	Q
SODIUM	82.5	J	6.54	MDL	110	PQL	mg/Kg	J	Z
TIN	2.32	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.28	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z, E

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	642		0.384	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.64	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.11	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	481		0.373	MDL	10.7	PQL	mg/Kg	J	Q
SODIUM	78.2	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	2.29	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.27	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z, E

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	345		0.405	MDL	11.6	PQL	mg/Kg	J	Q
SODIUM	103	J	6.89	MDL	116	PQL	mg/Kg	J	Z
TIN	2.66	J	0.371	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	4.36	J	0.533	MDL	5.79	PQL	mg/Kg	J	Z, E

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0630	MDL	0.435	PQL	mg/Kg	J	Z, FD

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.420		0.0543	MDL	0.109	PQL	mg/Kg	J	FD

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	118		0.115	MDL	0.435	PQL	mg/Kg	J	E, E, A

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0885	J	0.0804	MDL	0.217	PQL	mg/Kg	J	Z, Q, Q, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.16		0.0870	MDL	0.435	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	0.794		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CHROMIUM	31.3		0.130	MDL	0.435	PQL	mg/Kg	J	E, E, A, FD
COBALT	9.73		0.0217	MDL	0.109	PQL	mg/Kg	J	E, E, A
COPPER	14.8		0.0870	MDL	0.435	PQL	mg/Kg	J	Q, E, E, A
LEAD	8.08		0.0111	MDL	0.217	PQL	mg/Kg	J	E, E, A, FD
NICKEL	19.0		0.109	MDL	0.435	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0361	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z, E
THALLIUM	0.337		0.0326	MDL	0.109	PQL	mg/Kg	J	Q, E
VANADIUM	59.1		0.0239	MDL	0.109	PQL	mg/Kg	J	E, E, A, FD
ZINC	63.0		0.609	MDL	3.26	PQL	mg/Kg	J	E, A

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.104	J	0.0640	MDL	0.442	PQL	mg/Kg	J	Z

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	182		0.117	MDL	0.442	PQL	mg/Kg	J	E, E, A

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.184	J	0.0817	MDL	0.221	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	7.78		0.0883	MDL	0.442	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	1.15		0.0177	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	48.0		0.132	MDL	0.442	PQL	mg/Kg	J	E, E, A
COBALT	13.7		0.0221	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	20.4		0.0883	MDL	0.442	PQL	mg/Kg	J	Q, E, E, A
LEAD	12.5		0.0113	MDL	0.221	PQL	mg/Kg	J	E, E, A
NICKEL	29.6		0.110	MDL	0.442	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0517	J	0.0157	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.405		0.0331	MDL	0.110	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
VANADIUM	87.2		0.0243	MDL	0.110	PQL	mg/Kg	J	E, E, A
ZINC	88.2		0.618	MDL	3.31	PQL	mg/Kg	J	E, A

Sample ID: SL-185-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 3:30:00 PM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	97.6		0.116	MDL	0.440	PQL	mg/Kg	J	E, E, A

Sample ID: SL-185-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0874	J	0.0813	MDL	0.220	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	5.85		0.0879	MDL	0.440	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	0.801		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	28.3		0.132	MDL	0.440	PQL	mg/Kg	J	E, E, A
COBALT	7.19		0.0220	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	12.2		0.0879	MDL	0.440	PQL	mg/Kg	J	Q, E, E, A
LEAD	6.81		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A
NICKEL	16.5		0.110	MDL	0.440	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0472	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.297		0.0330	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	52.1		0.0242	MDL	0.110	PQL	mg/Kg	J	E, E, A
ZINC	54.9		0.615	MDL	3.30	PQL	mg/Kg	J	E, A

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.279	J	0.0637	MDL	0.440	PQL	mg/Kg	J	Z, FD

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.763		0.0549	MDL	0.110	PQL	mg/Kg	J	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	191		0.116	MDL	0.440	PQL	mg/Kg	J	E, E, A

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.283		0.0813	MDL	0.220	PQL	mg/Kg	J	Q, Q, FD
ARSENIC	8.34		0.0879	MDL	0.440	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	1.23		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	52.7		0.132	MDL	0.440	PQL	mg/Kg	J	E, E, A, FD
COBALT	15.2		0.0220	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	24.5		0.0879	MDL	0.440	PQL	mg/Kg	J	Q, E, E, A
LEAD	13.6		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A, FD
NICKEL	30.9		0.110	MDL	0.440	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0528	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.521		0.0330	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	99.8		0.0242	MDL	0.110	PQL	mg/Kg	J	E, E, A, FD
ZINC	102		0.615	MDL	3.30	PQL	mg/Kg	J	E, A

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0669	MDL	0.461	PQL	mg/Kg	J	Z

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	173		0.122	MDL	0.461	PQL	mg/Kg	J	E, E, A

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.238		0.0854	MDL	0.231	PQL	mg/Kg	J	Q, Q
ARSENIC	8.87		0.0923	MDL	0.461	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	1.27		0.0185	MDL	0.115	PQL	mg/Kg	J	Q, E
CHROMIUM	51.4		0.138	MDL	0.461	PQL	mg/Kg	J	E, E, A

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	11.9		0.0231	MDL	0.115	PQL	mg/Kg	J	E, E, A
COPPER	23.5		0.0923	MDL	0.461	PQL	mg/Kg	J	Q, E, E, A
LEAD	13.1		0.0118	MDL	0.231	PQL	mg/Kg	J	E, E, A
NICKEL	29.1		0.115	MDL	0.461	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0543	J	0.0164	MDL	0.115	PQL	mg/Kg	J	Z, E
THALLIUM	0.447		0.0346	MDL	0.115	PQL	mg/Kg	J	Q, E
VANADIUM	96.7		0.0254	MDL	0.115	PQL	mg/Kg	J	E, E, A
ZINC	99.5		0.646	MDL	3.46	PQL	mg/Kg	J	E, A

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.257	J	0.0637	MDL	0.439	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	167		0.116	MDL	0.439	PQL	mg/Kg	J	E, E, A

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.225		0.0812	MDL	0.220	PQL	mg/Kg	J	Q, Q
ARSENIC	7.52		0.0878	MDL	0.439	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	1.14		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	46.9		0.132	MDL	0.439	PQL	mg/Kg	J	E, E, A
COBALT	13.7		0.0220	MDL	0.110	PQL	mg/Kg	J	E, E, A
COPPER	22.5		0.0878	MDL	0.439	PQL	mg/Kg	J	Q, E, E, A
LEAD	14.3		0.0112	MDL	0.220	PQL	mg/Kg	J	E, E, A
NICKEL	27.7		0.110	MDL	0.439	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0757	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, E
THALLIUM	0.438		0.0329	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	88.9		0.0241	MDL	0.110	PQL	mg/Kg	J	E, E, A
ZINC	93.8		0.615	MDL	3.29	PQL	mg/Kg	J	E, A

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.137	J	0.0672	MDL	0.463	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	177		0.123	MDL	0.463	PQL	mg/Kg	J	E, E, A

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.159	J	0.0857	MDL	0.232	PQL	mg/Kg	J	Z, Q, Q
ARSENIC	7.12		0.0926	MDL	0.463	PQL	mg/Kg	J	Q, Q, E, E
BERYLLIUM	1.14		0.0185	MDL	0.116	PQL	mg/Kg	J	Q, E
CHROMIUM	47.0		0.139	MDL	0.463	PQL	mg/Kg	J	E, E, A
COBALT	13.2		0.0232	MDL	0.116	PQL	mg/Kg	J	E, E, A
COPPER	20.5		0.0926	MDL	0.463	PQL	mg/Kg	J	Q, E, E, A
LEAD	12.2		0.0118	MDL	0.232	PQL	mg/Kg	J	E, E, A
NICKEL	28.3		0.116	MDL	0.463	PQL	mg/Kg	J	Q, E, E, A
SILVER	0.0506	J	0.0164	MDL	0.116	PQL	mg/Kg	J	Z, E
THALLIUM	0.447		0.0347	MDL	0.116	PQL	mg/Kg	J	Q, E
VANADIUM	87.6		0.0255	MDL	0.116	PQL	mg/Kg	J	E, E, A
ZINC	92.7		0.648	MDL	3.47	PQL	mg/Kg	J	E, A

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	U	0.22	MDL	1.1	PQL	mg/Kg	UJ	FD

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.54	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.54	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.54	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0089	J	0.0080	MDL	0.114	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	FD

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.3	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.2	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.55	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.50	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.65	J	0.38	MDL	2.0	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,4-TRICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
1,2-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
1,3-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
1,4-DICHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2,4,5-TRICHLOROPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
2,4,6-TRICHLOROPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
2,4-DICHLOROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2,4-DIMETHYLPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	UJ	S
2,4-DINITROTOLUENE	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
2,6-DINITROTOLUENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2-CHLORONAPHTHALENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2-CHLOROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2-METHYLPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
2-NITROANILINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
2-NITROPHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
3,3'-DICHLOROBENZIDINE	110	U	110	MDL	370	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3-NITROANILINE	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
4-BROMOPHENYL-PHENYLETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
4-CHLORO-3-METHYLPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
4-CHLOROANILINE	74	U	74	MDL	180	PQL	ug/Kg	UJ	S
4-CHLOROPHENYL-PHENYLETHER	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
4-METHYLPHENOL	37	U	37	MDL	180	PQL	ug/Kg	UJ	S
4-NITROANILINE	74	U	74	MDL	180	PQL	ug/Kg	UJ	S
4-NITROPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
ANILINE	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	S
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
BENZYL ALCOHOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
BIS(2-CHLOROETHYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
BIS(2-CHLOROISOPROPYL) ETHER	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
CARBAZOLE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
DIBENZOFURAN	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
HEXACHLOROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
HEXACHLOROBUTADIENE	74	U	74	MDL	180	PQL	ug/Kg	UJ	S
HEXACHLOROCYCLOPENTADIENE	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
HEXACHLOROETHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
ISOPHORONE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
NITROBENZENE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
N-NITROSO-DI-N-PROPYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
N-NITROSODIPHENYLAMINE	18	U	18	MDL	180	PQL	ug/Kg	UJ	S
PENTACHLOROPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	S
PHENOL	18	U	18	MDL	180	PQL	ug/Kg	UJ	S

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3700	PQL	ug/Kg	UJ	Q

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **8270C SIM** ***Matrix:*** **SO**

Sample ID: **DUP23-SA5DN-QC-080411** ***Collected:*** **8/4/2011 10:59:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)ANTHRACENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.7	MDL	20	PQL	ug/Kg	J	Z, FD
CHRYSENE	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	FD
Di-n-butylphthalate	12	J	6.7	MDL	20	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD
PYRENE	0.74	U	0.74	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: **SL-185-SA5DN-SB-9.0-10.0** ***Collected:*** **8/4/2011 3:30:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.53	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	0.85	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	0.97	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.95	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.83	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.5	J	6.9	MDL	21	PQL	ug/Kg	J	Z, L
CHRYSENE	1.0	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	0.77	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
FLUORANTHENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	1.3	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	0.81	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.8	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.0	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(A)ANTHRACENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(A)PYRENE	0.92	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(B)FLUORANTHENE	1.2	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	0.97	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
BIS(2-ETHYLHEXYL)PHTHALATE	6.6	U	6.6	MDL	20	PQL	ug/Kg	UJ	FD
CHRYSENE	0.91	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z, FD
Di-n-butylphthalate	6.6	U	6.6	MDL	20	PQL	ug/Kg	UJ	FD
FLUORANTHENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
PHENANTHRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	1.1	J	0.73	MDL	1.8	PQL	ug/Kg	J	Z, FD

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.59	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	14	J	6.9	MDL	21	PQL	ug/Kg	J	Z
Butylbenzylphthalate	8.3	J	6.9	MDL	21	PQL	ug/Kg	J	Z, L
CHRYSENE	0.48	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	6.9	MDL	21	PQL	ug/Kg	J	Z
PHENANTHRENE	0.83	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Butylbenzylphthalate	8.2	J	6.7	MDL	20	PQL	ug/Kg	J	Z, L
CHRYSENE	0.43	J	0.37	MDL	1.8	PQL	ug/Kg	J	Z
Di-n-butylphthalate	13	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	17	J	7.0	MDL	21	PQL	ug/Kg	J	Z
Di-n-butylphthalate	12	J	7.0	MDL	21	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	Professional Judgment
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE216

Method Blank Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22108CB220608	8/12/2011 6:08:00 AM	ALUMINUM	9.51 mg/Kg	DUP23-SA5DN-QC-080411
		BORON	0.347 mg/Kg	SL-185-SA5DN-SB-4.0-5.0
		CALCIUM	7.59 mg/Kg	SL-185-SA5DN-SB-9.0-10.0
		IRON	4.32 mg/Kg	SL-189-SA5DN-SB-4.0-5.0
		MAGNESIUM	1.37 mg/Kg	SL-189-SA5DN-SB-9.0-10.0
		PHOSPHORUS	0.863 mg/Kg	SL-204-SA5DN-SB-4.0-5.0
		STRONTIUM	0.0365 mg/Kg	SL-204-SA5DN-SB-9.0-10.0
		TIN	1.58 mg/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP23-SA5DN-QC-080411(RES)	TIN	2.19 mg/Kg	2.19U mg/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	TIN	2.53 mg/Kg	2.53U mg/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	TIN	2.44 mg/Kg	2.44U mg/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	TIN	2.32 mg/Kg	2.32U mg/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-204-SA5DN-SB-4.0-5.0(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	TIN	2.66 mg/Kg	2.66U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22126BB221123A	8/11/2011 11:23:00 AM	COPPER	0.206 mg/Kg	DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0

Method: 8270C SIM
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD22B260855	8/18/2011 8:55:00 AM	Diethylphthalate	7.9 ug/Kg	DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5DN-SB-4.0-5.0 MS SL-189-SA5DN-SB-4.0-5.0 MSD (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	ANTIMONY ARSENIC CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	30 69 - - - - 59 2	24 -26 -51 21 -19 4 -177 -169	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 23 (20.00) 26 (20.00) 24 (20.00) 24 (20.00) 27 (20.00) 27 (20.00) -	ANTIMONY ARSENIC CHROMIUM COPPER LEAD NICKEL VANADIUM ZINC	J (all detects) R (all non-detects) Cr, Pb, V, Zn No Qual, % R >4x Sb Post Spike = 72% As Post Spike = -177% Cu Post Spike = -710% Ni Post Spike= -955%
SL-189-SA5DN-SB-4.0-5.0 MSD (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	BERYLLIUM COBALT SILVER THALLIUM	- - - -	55 - - 63	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 23 (20.00) 22 (20.00) 26 (20.00)	BERYLLIUM COBALT SILVER THALLIUM	J(all detects) UJ(all non-detects)
SL-189-SA5DN-SB-4.0-5.0 MS SL-189-SA5DN-SB-4.0-5.0 MSD (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	BARIUM	-32	-463	75.00-125.00	29 (20.00)	BARIUM	J(all detects) UJ(all non-detects) No Qual, %R>4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5DN-SB-4.0-5.0 MS SL-189-SA5DN-SB-4.0-5.0 MSD (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	ALUMINUM MAGNESIUM POTASSIUM TITANIUM	2531 140 135 291	2811 - 129 280	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ALUMINUM MAGNESIUM POTASSIUM TITANIUM	No Qual, >4x
SL-189-SA5DN-SB-4.0-5.0 MS SL-189-SA5DN-SB-4.0-5.0 MSD (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	CALCIUM IRON	-703 1341	-566 -425	75.00-125.00 75.00-125.00	- -	CALCIUM IRON	No Qual, >4x

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5DN-SB-4.0-5.0 MS (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	PHOSPHORUS	73	-	75.00-125.00	-	PHOSPHORUS	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5DN-SB-4.0-5.0 MS (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	FLUORIDE	60	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5DN-SB-4.0-5.0 MSD (SL-189-SA5DN-SB-4.0-5.0)	BIS(2-ETHYLHEXYL)PHTHALAT	-	586	39.00-167.00	128 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-189-SA5DN-SB-4.0-5.0 MS SL-189-SA5DN-SB-4.0-5.0 MSD (SL-189-SA5DN-SB-4.0-5.0)	BENZIDINE	24	25	35.00-141.00	-	BENZIDINE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-189-SA5DN-SB-4.0-5.0 DUP (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	Zirconium	30	20.00	J (all detects) UJ (all non-detects)

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-189-SA5DN-SB-4.0-5.0 DUP (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	ANTIMONY	68	20.00	
	ARSENIC	37	20.00	J(all detects) UJ(all non-detects)
	BARIUM	40	20.00	
	BERYLLIUM	30	20.00	
	CADMIUM	36	20.00	
	CHROMIUM	40	20.00	Sb, Cd, Ag, Tl No Qual, OK by Difference
	COBALT	40	20.00	
	COPPER	36	20.00	
	LEAD	37	20.00	
	MOLYBDENUM	0.3260 mg/kg	0.220 mg/kg	
	NICKEL	40	20.00	
	SILVER	28	20.00	
	THALLIUM	35	20.00	
	VANADIUM	38	20.00	
	ZINC	35	20.00	

Method: 7199
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-189-SA5DN-SB-4.0-5.0 DUP (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	HEXAVALENT CHROMIUM	28	20.00	No Qual, OK by Difference

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22126BQ221126A (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	ANTIMONY	72	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22108CQ220612 (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	ALUMINUM TITANIUM	132 157	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC limits

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P7LDLCSQ260928 (DUP23-SA5DN-QC-080411 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0)	Butylbenzylphthalate	132	-	65.00-131.00	-	Butylbenzylphthalate	J(all detects)

Surrogate Outlier Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
DUP23-SA5DN-QC -080411	2,4,6-TRIBROMOPHENOL	19	35.00-130.00	All Target Analytes	
	2-FLUOROBIPHENYL	23	45.00-130.00		
	2-FLUOROPHENOL	23	25.00-130.00		J (all detects)
	Nitrobenzene-d5	21	40.00-130.00		UJ (all non-detects)
	PHENOL-D6	24	25.00-120.00		
	Terphenyl-d14	23	45.00-135.00		

Field Duplicate RPD Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%) SL-189-SA5DN-SB-4.0-5.0	Concentration (%) DUP23-SA5DN-QC-080411	Sample RPD	eQAPP RPD	Flag
MOISTURE	9.0	9.8	9		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg) SL-189-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP23-SA5DN-QC-080411	Sample RPD	eQAPP RPD	Flag
FLUORIDE	2.6	2.4	8	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg) SL-189-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP23-SA5DN-QC-080411	Sample RPD	eQAPP RPD	Flag
ALUMINUM	29900	29800	0	50.00	No Qualifiers Applied
BORON	12.7	12.6	1	50.00	
CALCIUM	16400	15300	7	50.00	
IRON	30700	30800	0	50.00	
LITHIUM	25.4	25.4	0	50.00	
MAGNESIUM	6570	6540	0	50.00	
MANGANESE	385	384	0	50.00	
PHOSPHORUS	376	371	1	50.00	
POTASSIUM	5170	4960	4	50.00	
SODIUM	82.5	73.1	12	50.00	
STRONTIUM	38.0	37.0	3	50.00	
TIN	2.32	2.19	6	50.00	
TITANIUM	1380	1250	10	50.00	
Zirconium	2.28	2.10	8	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg) SL-189-SA5DN-SB-4.0-5.0	Concentration (mg/Kg) DUP23-SA5DN-QC-080411	Sample RPD	eQAPP RPD	Flag
ARSENIC	8.34	5.16	47	50.00	No Qualifiers Applied
BARIUM	191	118	47	50.00	
BERYLLIUM	1.23	0.794	43	50.00	
CADMIUM	0.349	0.214	48	50.00	
COBALT	15.2	9.73	44	50.00	
COPPER	24.5	14.8	49	50.00	
NICKEL	30.9	19.0	48	50.00	
SILVER	0.0528	0.0361	38	50.00	
THALLIUM	0.521	0.337	43	50.00	
ZINC	102	63.0	47	50.00	
ANTIMONY	0.283	0.0885	105	50.00	J(all detects)
CHROMIUM	52.7	31.3	51	50.00	
LEAD	13.6	8.08	51	50.00	
MOLYBDENUM	0.763	0.420	58	50.00	
SELENIUM	0.279	0.148	61	50.00	
VANADIUM	99.8	59.1	51	50.00	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: PrepDE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
HEXAVALENT CHROMIUM	0.54	1.1 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
AROCLOR 1254	1.2	1.9 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
ANTHRACENE	1.0	1.8 U	200	50.00	
BENZO(A)ANTHRACENE	1.1	1.8 U	200	50.00	
BENZO(A)PYRENE	0.92	1.8 U	200	50.00	
BENZO(B)FLUORANTHENE	1.2	1.8 U	200	50.00	
BENZO(K)FLUORANTHENE	0.97	1.8 U	200	50.00	
BIS(2-ETHYLHEXYL)PHTHALATE	20 U	11	200	50.00	J(all detects) UJ(all non-detects)
CHRYSENE	0.91	1.8 U	200	50.00	
Di-n-butylphthalate	20 U	12	200	50.00	
FLUORANTHENE	1.1	1.8 U	200	50.00	
PHENANTHRENE	1.1	1.8 U	200	50.00	
PYRENE	1.1	1.8 U	200	50.00	

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
PH	8.02	8.19	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP23-SA5DN-QC-080411	SODIUM	J	73.1	108	PQL	mg/Kg	J (all detects)
	TIN	J	2.19	10.8	PQL	mg/Kg	
	Zirconium	J	2.10	5.38	PQL	mg/Kg	
SL-185-SA5DN-SB-4.0-5.0	TIN	J	2.53	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.39	5.63	PQL	mg/Kg	
SL-185-SA5DN-SB-9.0-10.0	SODIUM	J	92.5	113	PQL	mg/Kg	J (all detects)
	TIN	J	2.44	11.3	PQL	mg/Kg	
	Zirconium	J	1.62	5.66	PQL	mg/Kg	
SL-189-SA5DN-SB-4.0-5.0	SODIUM	J	82.5	110	PQL	mg/Kg	J (all detects)
	TIN	J	2.32	11.0	PQL	mg/Kg	
	Zirconium	J	2.28	5.49	PQL	mg/Kg	
SL-189-SA5DN-SB-9.0-10.0	TIN	J	2.64	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.11	5.49	PQL	mg/Kg	
SL-204-SA5DN-SB-4.0-5.0	SODIUM	J	78.2	107	PQL	mg/Kg	J (all detects)
	TIN	J	2.29	10.7	PQL	mg/Kg	
	Zirconium	J	2.27	5.33	PQL	mg/Kg	
SL-204-SA5DN-SB-9.0-10.0	SODIUM	J	103	116	PQL	mg/Kg	J (all detects)
	TIN	J	2.66	11.6	PQL	mg/Kg	
	Zirconium	J	4.36	5.79	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP23-SA5DN-QC-080411	ANTIMONY	J	0.0885	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.435	PQL	mg/Kg	
	SILVER	J	0.0361	0.109	PQL	mg/Kg	
SL-185-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.184	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.104	0.442	PQL	mg/Kg	
	SILVER	J	0.0517	0.110	PQL	mg/Kg	
SL-185-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.0874	0.220	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0472	0.110	PQL	mg/Kg	
SL-189-SA5DN-SB-4.0-5.0	SELENIUM	J	0.279	0.440	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0528	0.110	PQL	mg/Kg	
SL-189-SA5DN-SB-9.0-10.0	SELENIUM	J	0.206	0.461	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0543	0.115	PQL	mg/Kg	
SL-204-SA5DN-SB-4.0-5.0	SELENIUM	J	0.257	0.439	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0757	0.110	PQL	mg/Kg	
SL-204-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.159	0.232	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.137	0.463	PQL	mg/Kg	
	SILVER	J	0.0506	0.116	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-189-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.54	1.1	PQL	mg/Kg	J (all detects)
SL-204-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.54	1.1	PQL	mg/Kg	J (all detects)
SL-204-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.54	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-189-SA5DN-SB-9.0-10.0	MERCURY	J	0.0089	0.114	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	1.3	1.9	PQL	ug/Kg	J (all detects)
SL-189-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	1.2	1.9	PQL	ug/Kg	J (all detects)
SL-189-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.55	2.0	PQL	ug/Kg	J (all detects)
SL-204-SA5DN-SB-4.0-5.0	AROCLOR 1260	J	0.50	1.9	PQL	ug/Kg	J (all detects)
SL-204-SA5DN-SB-9.0-10.0	AROCLOR 1254	J	0.65	2.0	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP23-SA5DN-QC-080411	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-butylphthalate	J J	11 12	20 20	PQL PQL	ug/Kg ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE216 **Laboratory: LL**

EDD Filename: DE216_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA5DN-SB-9.0-10.0	ACENAPHTHYLENE	J	0.53	1.9	PQL	ug/Kg	
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.2	1.9	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.85	1.9	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	0.97	1.9	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	0.95	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.83	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	21	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.5	21	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	1.0	1.9	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	0.77	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	21	PQL	ug/Kg	
	FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORENE	J	1.3	1.9	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.81	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.8	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	
SL-189-SA5DN-SB-4.0-5.0	ANTHRACENE	J	1.0	1.8	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	1.1	1.8	PQL	ug/Kg	
	BENZO(A)PYRENE	J	0.92	1.8	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.97	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.91	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.8	PQL	ug/Kg	
	PYRENE	J	1.1	1.8	PQL	ug/Kg	
SL-189-SA5DN-SB-9.0-10.0	ANTHRACENE	J	0.59	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	14	21	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.3	21	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.48	1.9	PQL	ug/Kg	
	Di-n-butylphthalate	J	12	21	PQL	ug/Kg	
	PHENANTHRENE	J	0.83	1.9	PQL	ug/Kg	
SL-204-SA5DN-SB-4.0-5.0	Butylbenzylphthalate	J	8.2	20	PQL	ug/Kg	
	CHRYSENE	J	0.43	1.8	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	13	20	PQL	ug/Kg	
SL-204-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	17	21	PQL	ug/Kg	J (all detects)
	Di-n-butylphthalate	J	12	21	PQL	ug/Kg	

LDC #: 26533E4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE216 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer: C

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	No qual by ICB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Co, Cr, Fe, Pb, Mg, K, Ti, V, Zn > 4X (No qual for %R)
VII.	Duplicate Sample Analysis	SW	Sb, Cd, Ag, Tl < 5X, No difference 0.326 (V RPD out J/UJ)
VIII.	Laboratory Control Samples (LCS)	NA	SRM (LO.22)
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cr, Co, Cu, Pb, Ni, V, Zn J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	~~N~~	
XV	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SL-185-SA5DN-SB-4.0-5.0	11		21		31	
2	SL-185-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-189-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-189-SA5DN-SB-9.0-10.0	14		24		34	
5	SL-204-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-204-SA5DN-SB-9.0-10.0	16		26		36	
7	DUP23-SA5DN-QC-080411	17		27		37	
8	SL-189-SA5DN-SB-4.0-5.0MS	18		28		38	
9	SL-189-SA5DN-SB-4.0-5.0MSD	19		29		39	
10	SL-189-SA5DN-SB-4.0-5.0DUP	20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366491BKG Matrix Spike Lab Sample ID: 6366492MS Matrix Spike Duplicate Lab Sample ID: 6366493MSD
% Solids for Sample: 91.0
Batch Id(s): P22108C, P22126B, P22111B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		29854.3264		35417.2319		35852.5179		219.7802	213.3789	MG/KG	2531		2811		1			20	P
Antimony	121	0.2826		0.6608		0.5958		1.2680	1.3056	MG/KG	30	N	24	N	10		75 - 125	20	MS
Arsenic	75	8.3407		9.8035		7.7815		2.1133	2.1760	MG/KG	69	N	-26	N	23	*	75 - 125	20	MS
Barium	137	191.4286		187.9966		141.0945		10.5664	10.8802	MG/KG	-32		-463		29	*		20	MS
Beryllium	9	1.2251		2.0619		1.7069		0.8453	0.8704	MG/KG	99		55	N	19		75 - 125	20	MS
Boron		12.6978		216.4714		210.4897		219.7802	213.3789	MG/KG	93		93		3		84 - 115	20	P
Cadmium	111	0.3495		1.5626		1.2839		1.0566	1.0880	MG/KG	115		86		20		75 - 125	20	MS
Calcium		16392.4956		13300.7901		13975.8188		439.5604	426.7577	MG/KG	-703		-566		5			20	P
Chromium	52	52.6813		61.2849		47.0895		10.5664	10.8802	MG/KG	81		-51		26	*		20	MS
Cobalt	59	15.2308		77.8952		61.7125		52.8318	54.4010	MG/KG	119		85		23	*	75 - 125	20	MS
Copper	63	24.5055		34.0448		26.7871		10.5664	10.8802	MG/KG	90		21	N	24	*	75 - 125	20	MS
Iron		30733.0440		32206.8956		30279.5370		109.8901	106.6894	MG/KG	1341		-425		6			20	P
Lead	208	13.5868		16.5046		12.9540		3.1699	3.2641	MG/KG	92		-19		24	*		20	MS
Lithium		25.3890		134.0121		128.4914		109.8901	106.6894	MG/KG	99		97		4		82 - 114	20	P
Magnesium		6573.3769		6880.8736		6833.6253		219.7802	213.3789	MG/KG	140		122		1			20	P
Manganese		385.1527		450.8495		433.3202		54.9451	53.3447	MG/KG	120		90		4			20	P
Mercury		0.0076	U	0.1750		0.1665		0.1787	0.1747	MG/KG	98		95		5		65 - 135	20	CV
Molybdenum	98	0.7629		12.6775		10.4080		10.5664	10.8802	MG/KG	113		89		20		75 - 125	20	MS
Nickel	60	30.9231		40.9975		31.3568		10.5664	10.8802	MG/KG	95		4	N	27	*	75 - 125	20	MS
Phosphorus		375.8385		456.0275		464.5322		109.8901	106.6894	MG/KG	73	N	83		2		75 - 125	20	P
Potassium		5169.2165		6648.5945		6541.3229		1098.9011	1066.8943	MG/KG	135		129		2			20	P
Selenium	78	0.2787	B	2.2802		1.9600		2.1133	2.1760	MG/KG	95		77		15		75 - 125	20	MS
Silver	107	0.0528	B	13.1868		10.5299		10.5664	10.8802	MG/KG	124		96		22	*	75 - 125	20	MS
Sodium		82.5473	B	1141.3648		1087.4309		1098.9011	1066.8943	MG/KG	96		94		5		75 - 125	20	P
Strontium		38.0440		139.4187		136.7758		109.8901	106.6894	MG/KG	92		93		2		75 - 115	20	P
Thallium	203	0.5213		1.0351		0.7958		0.4227	0.4352	MG/KG	122		63	N	26	*	75 - 125	20	MS
Tin		2.3220	B	369.4077		346.3406		439.5604	426.7577	MG/KG	84		81		6		80 - 110	20	P
Titanium		1379.0659		1698.8363		1677.5920		109.8901	106.6894	MG/KG	291		280		1			20	P
Vanadium	51	99.8022		106.0862		80.5571		10.5664	10.8802	MG/KG	59		-177		27	*		20	MS
Zinc	66	102.4176		102.5993		84.0170		10.5664	10.8802	MG/KG	2		-169		20			20	MS
Zirconium		2.2802	B	101.8176		94.7253		109.8901	106.6894	MG/KG	91		87		7		75 - 125	20	P

METHODS:
P = ICP Atomic Emission Spectrometer CV = Cold Vapor
MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

Sb** = post spike %R J/R Cu** = post spike %R
Ag** ↓ 44 ↓ Ni** ↓ 55

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

<5xRL

Background Lab Sample ID: 6366491BKG
% Solids for Duplicate: 90.8
Batch ID(s): P22108C, P22126B, P22111B
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6366494DUP
% Solids for Sample: 91.0

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			29854.3264		27876.8069		7		P
Antimony	121	0.2	0.2826		0.1396	B	68		MS
Arsenic	75		8.3407		5.7341		37	*	MS
Barium	137		191.4286		127.6484		40	*	MS
Beryllium	9		1.2251		0.9009		30	*	MS
Boron		5.5	12.6978		11.4966		10		P
Cadmium	111	0.1	0.3495		0.2431		36		MS
Calcium			16392.4956		14089.1345		15		P
Chromium	52		52.6813		35.0769		40	*	MS
Cobalt	59		15.2308		10.1363		40	*	MS
Copper	63		24.5055		16.9604		36	*	MS
Iron			30733.0440		29557.5301		4		P
Lead	208		13.5868		9.3407		37	*	MS
Lithium			25.3890		23.2988		9		P
Magnesium			6573.3769		6139.4390		7		P
Manganese			385.1527		396.6845		3		P
Mercury			0.0076	U	0.0076	U			CV
Molybdenum	98	0.1	0.7629		0.4369		54	*	MS
Nickel	60		30.9231		20.7099		40	*	MS
Phosphorus			375.8385		360.4448		4		P
Potassium			5169.2165		4880.6709		6		P
Selenium	78		0.2787	B	0.2279	B	20		MS
Silver	107		0.0528	B	0.0397	B	28		MS
Sodium			82.5473	B	76.0523	B	8		P
Strontium			38.0440		33.5604		13		P
Thallium	203	0.1	0.5213		0.3648		35	*	MS
Tin			2.3220	B	2.2302	B	4		P
Titanium			1379.0659		1250.0963		10		P
Vanadium	51		99.8022		68.1099		38	*	MS
Zinc	66		102.4176		71.7802		35	*	MS
Zirconium			2.2802	B	1.6777	B	30		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

Mo = 0.360 (≤ 0.220)

DE216 2842

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 9
SERIAL DILUTIONS
SDG No.: DE216
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6366491BKG Serial Dilution Lab Sample ID: 6366491L
Batch ID(s): P22108C, P22126B
Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		271674.3700		271882.4500		0		P
Antimony	121	1.2860		1.8500	U	100		MS
Arsenic	75	37.9500		57.5000		52		MS
Barium	137	871.0000		1230.5000		41	E	MS
Beryllium	9	5.5740		9.1400		64		MS
Boron		115.5500		165.2000	B	43		P
Cadmium	111	1.5900		2.8445		79		MS
Calcium		149171.7100		156798.0500		5		P
Chromium	52	239.7000		345.5000		44	E	MS
Cobalt	59	69.3000		103.4000		49	E	MS
Copper	63	111.5000		167.1500		50	E	MS
Iron		55934.1400		56432.4500		1		P
Lead	208	61.8200		89.2000		44	E	MS
Lithium		231.0400		233.0500		1		P
Magnesium		59817.7300		62820.0500		5		P
Manganese		3504.8900		3806.4000		9		P
Molybdenum	98	3.4710		5.3550		54		MS
Nickel	60	140.7000		209.7500		49	E	MS
Phosphorus		3420.1300		3486.0000		2		P
Potassium		47039.8700		47777.4000		2		P
Selenium	78	1.2680	B	2.0185	B	59		MS
Silver	107	0.2401	B	0.3550	U	100		MS
Sodium		751.1800	B	297.5000	U	100		P
Strontium		346.2000		363.0000		5		P
Thallium	203	2.3720		3.3020		39		MS
Tin		21.1300	B	26.7000	B	26		P
Titanium		12549.5000		13161.0000		5		P
Vanadium	51	454.1000		651.0000		43	E	MS
Zinc	66	466.0000		728.0000		56	E	MS
Zirconium		20.7500	B	23.0000	U	100		P

NOTE: An E in column Q indicates the presence of a chemical or physical interference in the matrix when the % difference is greater than 10%. This applies only when (I) is greater than or equal to 50x MDL for ICP, 100x MDL for ICP-MS (6020), 50x MDL for ICP-MS (200.8), or 25x MDL for GFAA.

DE216 ~~ZZ11~~

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry

CONCENTRATION QUALIFIERS:
U= Below MDL
B= Below LOQ

FLAGS:
E = Matrix Effects exist as proven by Serial Dilution or Spiked Dilution

SAMPLE DELIVERY GROUP

DE218

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3050B	6010B	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3050B	6020	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3060A	7199	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8082	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8270C	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	3550B	8270C SIM	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	314.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	6850	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367755	N	METHOD	7471A	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0DUP	P367755D270449A	DUP	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0DUP	P367755D271150A	DUP	METHOD	314.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0MS	P367755R270530A	MS	METHOD	300.0	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0MS	P367755R271213A	MS	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3050B	6010B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3050B	6020	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3060A	7199	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8082	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8270C	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	3550B	8270C SIM	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	5035	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	7471A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	8315A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367762	N	METHOD	9012B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R240013A	MS	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R242118A	MS	METHOD	8315A	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0MS	P367762R261721	MS	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3050B	6010B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3050B	6020	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3060A	7199	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3546	1625C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8082	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8270C	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	3550B	8270C SIM	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	5035	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	8330	8330A	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	300.0	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	314.0	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	7471A	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8015B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8015M	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	8315A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367763	N	METHOD	9012B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3050B	6010B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3050B	6020	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3060A	7199	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8082	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8270C	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	3550B	8270C SIM	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	300.0	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	314.0	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367757	N	METHOD	7471A	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3050B	6010B	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3050B	6020	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3060A	7199	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8082	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8270C	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	3550B	8270C SIM	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	300.0	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	314.0	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367756	N	METHOD	7471A	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3050B	6010B	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3050B	6020	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3060A	7199	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8082	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8270C	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	3550B	8270C SIM	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	314.0	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367760	N	METHOD	7471A	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3050B	6010B	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3050B	6020	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3060A	7199	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8082	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8270C	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	3550B	8270C SIM	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	300.0	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	314.0	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367761	N	METHOD	7471A	III
05-Aug-2011	TB-080511	6367764	TB	5030B	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3050B	6010B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3050B	6020	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3060A	7199	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8082	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8270C	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	3550B	8270C SIM	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	5035	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	300.0	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	314.0	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	7471A	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367758	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MSD	P367758M320134A	MSD	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MSD	P367758M321917A	MSD	METHOD	8015M	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MS	P367758R320119A	MS	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0MS	P367758R321904A	MS	METHOD	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3050B	6010B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3050B	6020	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3060A	7199	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8015B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8082	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8270C	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	3550B	8270C SIM	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	5035	8015M	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	300.0	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	314.0	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	7471A	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	8015B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367759	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.91	U	0.91	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: **SL-022-SA6-SB-0.0-1.0** ***Collected:*** **8/5/2011 10:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: **SL-023-SA6-SB-0.0-1.0** ***Collected:*** **8/5/2011 10:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: **SL-060-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 11:32:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.4		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.3		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.93	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-198-SA5DN-SB-9.0-10.0 *Collected:* 8/5/2011 9:13:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	11.3		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-010-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.54	J	0.404	MDL	5.61	PQL	mg/Kg	J	Z
CALCIUM	1430		2.81	MDL	22.4	PQL	mg/Kg	J	E, E
PHOSPHORUS	147		0.393	MDL	11.2	PQL	mg/Kg	J	Q
SODIUM	109	J	6.68	MDL	112	PQL	mg/Kg	J	Z
TIN	3.37	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.98	J	0.516	MDL	5.61	PQL	mg/Kg	J	Z

Sample ID: SL-022-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.97	J	0.364	MDL	5.05	PQL	mg/Kg	J	Z
CALCIUM	2280		2.53	MDL	20.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	480		0.354	MDL	10.1	PQL	mg/Kg	J	Q
TIN	3.37	J	0.323	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	2.13	J	0.465	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.38	J	0.369	MDL	5.12	PQL	mg/Kg	J	Z
CALCIUM	3270		2.56	MDL	20.5	PQL	mg/Kg	J	E, E
PHOSPHORUS	358		0.359	MDL	10.2	PQL	mg/Kg	J	Q
SODIUM	88.2	J	6.10	MDL	102	PQL	mg/Kg	J	Z
TIN	2.95	J	0.328	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.471	MDL	5.12	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-060-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 11:32:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	23900		2.53	MDL	20.2	PQL	mg/Kg	J	E, E
PHOSPHORUS	330		0.354	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	94.5	J	6.02	MDL	101	PQL	mg/Kg	J	Z
TIN	2.78	J	0.324	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **5**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	92900		14.2	MDL	113	PQL	mg/Kg	J	E, E

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	513		0.397	MDL	11.3	PQL	mg/Kg	J	Q
TIN	2.90	J	0.363	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	5.64	J	0.522	MDL	5.67	PQL	mg/Kg	J	Z

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.32	J	0.384	MDL	5.33	PQL	mg/Kg	J	Z
CALCIUM	2710		2.67	MDL	21.3	PQL	mg/Kg	J	E, E
PHOSPHORUS	289		0.373	MDL	10.7	PQL	mg/Kg	J	Q
TIN	2.96	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	1.83	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	1410		2.73	MDL	21.8	PQL	mg/Kg	J	E, E
PHOSPHORUS	221		0.382	MDL	10.9	PQL	mg/Kg	J	Q
TIN	3.28	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.59	J	0.502	MDL	5.45	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	6330		2.85	MDL	22.8	PQL	mg/Kg	J	E, E
PHOSPHORUS	346		0.399	MDL	11.4	PQL	mg/Kg	J	Q
TIN	3.38	J	0.365	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: **SL-198-SA5DN-SB-9.0-10.0** ***Collected:*** **8/5/2011 9:13:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CALCIUM	54600		2.70	MDL	21.6	PQL	mg/Kg	J	E, E
PHOSPHORUS	454		0.378	MDL	10.8	PQL	mg/Kg	J	Q
TIN	3.04	J	0.346	MDL	10.8	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0695	J	0.0651	MDL	0.449	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.873		0.0561	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.119	MDL	0.449	PQL	mg/Kg	J	E

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0831	U	0.0831	MDL	0.224	PQL	mg/Kg	UJ	Q
ARSENIC	4.77		0.0898	MDL	0.449	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.933		0.0180	MDL	0.112	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory:** LL

EDD Filename: DE218_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-010-SA6-SB-4.0-5.0 ***Collected:*** 8/5/2011 8:05:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0497	J	0.0494	MDL	0.112	PQL	mg/Kg	J	Z, Q
CHROMIUM	18.0		0.135	MDL	0.449	PQL	mg/Kg	J	Q
COBALT	6.67		0.0224	MDL	0.112	PQL	mg/Kg	J	Q, E
LEAD	6.13		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, E
NICKEL	11.9		0.112	MDL	0.449	PQL	mg/Kg	J	Q
SILVER	0.0255	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z, Q
THALLIUM	0.216		0.0337	MDL	0.112	PQL	mg/Kg	J	Q
VANADIUM	36.3		0.0247	MDL	0.112	PQL	mg/Kg	J	Q
ZINC	63.1		0.629	MDL	3.37	PQL	mg/Kg	J	E

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:30:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.136	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z, Q

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:30:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.620		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:30:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	77.0		0.111	MDL	0.420	PQL	mg/Kg	J	E

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:30:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0777	U	0.0777	MDL	0.210	PQL	mg/Kg	UJ	Q
ARSENIC	4.69		0.0840	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.399		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.0504	J	0.0462	MDL	0.105	PQL	mg/Kg	J	Z, Q
CHROMIUM	7.17		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	4.59		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E
LEAD	5.36		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory:** LL

EDD Filename: DE218_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-022-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:30:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	5.75		0.105	MDL	0.420	PQL	mg/Kg	J	Q
THALLIUM	0.371		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
VANADIUM	25.8		0.0231	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	65.7		0.588	MDL	3.15	PQL	mg/Kg	J	E

Sample ID: SL-023-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:00:00 ***Analysis Type:*** REA2 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.443		0.0517	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-023-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:00:00 ***Analysis Type:*** REA3 ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	103		0.110	MDL	0.414	PQL	mg/Kg	J	E

Sample ID: SL-023-SA6-SB-0.0-1.0 ***Collected:*** 8/5/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0766	U	0.0766	MDL	0.207	PQL	mg/Kg	UJ	Q
ARSENIC	3.15		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.422		0.0166	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.0848	J	0.0455	MDL	0.103	PQL	mg/Kg	J	Z, Q
CHROMIUM	11.8		0.124	MDL	0.414	PQL	mg/Kg	J	Q
COBALT	5.61		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
LEAD	4.64		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, E
NICKEL	8.34		0.103	MDL	0.414	PQL	mg/Kg	J	Q
THALLIUM	0.282		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	30.1		0.0228	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	73.5		0.579	MDL	3.10	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-4.0-5.0 ***Collected:*** 8/5/2011 11:32:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0789	J	0.0599	MDL	0.413	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 11:32:00 *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.231		0.0516	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 11:32:00 *Analysis Type:* REA3 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	122		0.109	MDL	0.413	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 11:32:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0923	J	0.0764	MDL	0.206	PQL	mg/Kg	UJ	B, Q
ARSENIC	5.96		0.0826	MDL	0.413	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.859		0.0165	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.322		0.0454	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	32.2		0.124	MDL	0.413	PQL	mg/Kg	J	Q
COBALT	8.81		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
LEAD	9.47		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, E
NICKEL	21.2		0.103	MDL	0.413	PQL	mg/Kg	J	Q
SILVER	0.0514	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q
THALLIUM	0.350		0.0310	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	58.2		0.0227	MDL	0.103	PQL	mg/Kg	J	Q
ZINC	67.4		0.578	MDL	3.10	PQL	mg/Kg	J	E

Sample ID: SL-060-SA5DN-SB-7.0-8.0 *Collected:* 8/5/2011 1:05:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0825	J	0.0658	MDL	0.454	PQL	mg/Kg	J	Z, Q

Sample ID: SL-060-SA5DN-SB-7.0-8.0 *Collected:* 8/5/2011 1:05:00 PM *Analysis Type:* REA2 *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.233		0.0567	MDL	0.113	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.120	MDL	0.454	PQL	mg/Kg	J	E

Sample ID: **SL-060-SA5DN-SB-7.0-8.0** ***Collected:*** **8/5/2011 1:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.124	J	0.0840	MDL	0.227	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.89		0.0908	MDL	0.454	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.830		0.0182	MDL	0.113	PQL	mg/Kg	J	Q, E
CADMIUM	0.381		0.0499	MDL	0.113	PQL	mg/Kg	J	Q
CHROMIUM	30.3		0.136	MDL	0.454	PQL	mg/Kg	J	Q
COBALT	10.8		0.0227	MDL	0.113	PQL	mg/Kg	J	Q, E
LEAD	10.2		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, E
NICKEL	20.9		0.113	MDL	0.454	PQL	mg/Kg	J	Q
SILVER	0.0490	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.296		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
VANADIUM	62.3		0.0250	MDL	0.113	PQL	mg/Kg	J	Q
ZINC	64.5		0.635	MDL	3.40	PQL	mg/Kg	J	E

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0733	J	0.0589	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.550		0.0508	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	93.0		0.108	MDL	0.406	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0751	U	0.0751	MDL	0.203	PQL	mg/Kg	UJ	Q
ARSENIC	4.35		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.668		0.0162	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.0779	J	0.0447	MDL	0.102	PQL	mg/Kg	J	Z, Q
CHROMIUM	17.0		0.122	MDL	0.406	PQL	mg/Kg	J	Q
COBALT	6.21		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
LEAD	5.11		0.0104	MDL	0.203	PQL	mg/Kg	J	Q, E
NICKEL	11.3		0.102	MDL	0.406	PQL	mg/Kg	J	Q
SILVER	0.0259	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.295		0.0305	MDL	0.102	PQL	mg/Kg	J	Q
VANADIUM	36.8		0.0223	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	60.7		0.569	MDL	3.05	PQL	mg/Kg	J	E

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.223	J	0.0645	MDL	0.445	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	2.05		0.0556	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	179		0.118	MDL	0.445	PQL	mg/Kg	J	E

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0966	J	0.0823	MDL	0.222	PQL	mg/Kg	UJ	B, Q
ARSENIC	9.46		0.0890	MDL	0.445	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.33		0.0178	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.0790	J	0.0489	MDL	0.111	PQL	mg/Kg	J	Z, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	30.4		0.133	MDL	0.445	PQL	mg/Kg	J	Q
COBALT	9.62		0.0222	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	11.7		0.0113	MDL	0.222	PQL	mg/Kg	J	Q, E
NICKEL	25.7		0.111	MDL	0.445	PQL	mg/Kg	J	Q
SILVER	0.122		0.0158	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.456		0.0334	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	60.6		0.0245	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	83.1		0.623	MDL	3.34	PQL	mg/Kg	J	E

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.251	J	0.0642	MDL	0.443	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.551		0.0554	MDL	0.111	PQL	mg/Kg	J	Q

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	197		0.117	MDL	0.443	PQL	mg/Kg	J	E

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0819	MDL	0.221	PQL	mg/Kg	UJ	B, Q
ARSENIC	7.72		0.0886	MDL	0.443	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.17		0.0177	MDL	0.111	PQL	mg/Kg	J	Q, E
CADMIUM	0.474		0.0487	MDL	0.111	PQL	mg/Kg	J	Q
CHROMIUM	42.6		0.133	MDL	0.443	PQL	mg/Kg	J	Q
COBALT	17.1		0.0221	MDL	0.111	PQL	mg/Kg	J	Q, E
LEAD	15.2		0.0113	MDL	0.221	PQL	mg/Kg	J	Q, E
NICKEL	33.6		0.111	MDL	0.443	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-198-SA5DN-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:49:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.115		0.0157	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.517		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	76.6		0.0244	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	107		0.620	MDL	3.32	PQL	mg/Kg	J	E

Sample ID: **SL-198-SA5DN-SB-9.0-10.0** ***Collected:*** **8/5/2011 9:13:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0819	J	0.0639	MDL	0.441	PQL	mg/Kg	J	Z, Q

Sample ID: **SL-198-SA5DN-SB-9.0-10.0** ***Collected:*** **8/5/2011 9:13:00 AM** ***Analysis Type:*** **REA2** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.221		0.0551	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: **SL-198-SA5DN-SB-9.0-10.0** ***Collected:*** **8/5/2011 9:13:00 AM** ***Analysis Type:*** **REA3** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.117	MDL	0.441	PQL	mg/Kg	J	E

Sample ID: **SL-198-SA5DN-SB-9.0-10.0** ***Collected:*** **8/5/2011 9:13:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0815	U	0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q
ARSENIC	5.36		0.0881	MDL	0.441	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.683		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.292		0.0485	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	27.2		0.132	MDL	0.441	PQL	mg/Kg	J	Q
COBALT	9.87		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
LEAD	8.65		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E
NICKEL	19.4		0.110	MDL	0.441	PQL	mg/Kg	J	Q
SILVER	0.0482	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.318		0.0330	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	51.2		0.0242	MDL	0.110	PQL	mg/Kg	J	Q
ZINC	59.6		0.617	MDL	3.30	PQL	mg/Kg	J	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 3:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.80	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-022-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0189	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0574	J	0.0070	MDL	0.0992	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 3:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0212	J	0.0078	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0314	J	0.0076	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-9.0-10.0 *Collected:* 8/5/2011 9:13:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0120	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q
Propylene glycol	5.3	U	5.3	MDL	11	PQL	mg/Kg	UJ	Q

Sample ID: **SL-114-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 3:05:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.64	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.85	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: **SL-114-SA6-SB-9.0-10.0** ***Collected:*** **8/5/2011 3:15:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.2	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: **SL-010-SA6-SB-4.0-5.0** ***Collected:*** **8/5/2011 8:05:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.44	U	0.44	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1262	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1268	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory:** LL

EDD Filename: DE218_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 8082 **Matrix:** SO

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 11:32:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.95	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.43	J	0.41	MDL	1.8	PQL	ug/Kg	U	B

Sample ID: SL-114-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 3:05:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.56	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 3:15:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1254	6.2		0.37	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1260	1.5	J	0.43	MDL	1.9	PQL	ug/Kg	UJ	B, S
Aroclor 1262	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1268	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.3	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix:** SO

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	350	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 3:05:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	150	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	58	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	32	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-022-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	4.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	3.9	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA5DN-SB-7.0-8.0 *Collected:* 8/5/2011 1:05:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.94	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z
PHENANTHRENE	1.8	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-114-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 3:05:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.83	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	0.95	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.8	J	0.71	MDL	1.8	PQL	ug/Kg	U	B

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 3:15:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.38	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.90	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.99	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.4	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.7	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	9.0	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	5.9	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.9	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
PHENANTHRENE	5.5	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B **Matrix: SO**

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 3:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	200	J	110	MDL	560	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE218

Method Blank Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22208CB221854	8/12/2011 6:54:00 PM	CALCIUM IRON PHOSPHORUS STRONTIUM TIN	4.37 mg/Kg 4.33 mg/Kg 1.72 mg/Kg 0.0260 mg/Kg 1.56 mg/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-010-SA6-SB-4.0-5.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-022-SA6-SB-0.0-1.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-023-SA6-SB-0.0-1.0(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-114-SA6-SB-4.0-5.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-114-SA6-SB-9.0-10.0(RES)	TIN	3.28 mg/Kg	3.28U mg/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	TIN	3.38 mg/Kg	3.38U mg/Kg
SL-198-SA5DN-SB-9.0-10.0(RES)	TIN	3.04 mg/Kg	3.04U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22226CB221232A	8/15/2011 12:32:00 PM	VANADIUM	0.0247 mg/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

Method: 8082
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28289AB241824A	8/24/2011 6:24:00 PM	AROCLOR 1260	0.49 ug/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8082**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-060-SA5DN-SB-4.0-5.0(RES)	AROCLOR 1260	0.43 ug/Kg	1.8U ug/Kg
SL-114-SA6-SB-9.0-10.0(RES)	AROCLOR 1260	1.5 ug/Kg	1.9U ug/Kg

Method: **8270C SIM**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD22B260842	8/27/2011 8:42:00 AM	NAPHTHALENE	1.3 ug/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-114-SA6-SB-4.0-5.0(RES)	NAPHTHALENE	1.8 ug/Kg	1.8U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-114-SA6-SB-4.0-5.0MS	DIETHYLENE GLYCOL	41	31	59.00-109.00	28 (20.00)	DIETHYLENE GLYCOL	J (all detects)
SL-114-SA6-SB-4.0-5.0MSD	ETHYLENE GLYCOL	-	52	63.00-107.00	40 (20.00)	ETHYLENE GLYCOL	UJ (all non-detects)
(SL-114-SA6-SB-4.0-5.0)	Propylene glycol	-	55	63.00-107.00	42 (20.00)	Propylene glycol	

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-010-SA6-SB-4.0-5.0MS	FLUORIDE	49	-	80.00-120.00	-	FLUORIDE	
(SL-010-SA6-SB-4.0-5.0							
SL-022-SA6-SB-0.0-1.0							
SL-023-SA6-SB-0.0-1.0							
SL-060-SA5DN-SB-4.0-5.0							J(all detects)
SL-060-SA5DN-SB-7.0-8.0							UJ(all non-detects)
SL-114-SA6-SB-4.0-5.0							
SL-114-SA6-SB-9.0-10.0							
SL-198-SA5DN-SB-4.0-5.0							
SL-198-SA5DN-SB-9.0-10.0)							

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-010-SA6-SB-4.0-5.0DUP (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN-SB-4.0-5.0 SL -060-SA5DN-SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN-SB-4.0-5.0 SL -198-SA5DN-SB-9.0-10.0)	Nitrate-NO3	44	20.00	No Qual, OK by Difference

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22226CQ221235A (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN -SB-4.0-5.0 SL -060-SA5DN -SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN -SB-4.0-5.0 SL -198-SA5DN -SB-9.0-10.0)	ANTIMONY	54	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22208CQ221858 (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN -SB-4.0-5.0 SL -060-SA5DN -SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN -SB-4.0-5.0 SL -198-SA5DN -SB-9.0-10.0)	ALUMINUM TITANIUM	121 142	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

Surrogate Outlier Report

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8082**
Matrix: **SO**

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
SL-010-SA6-SB-4.0 -5.0	TETRACHLORO-M-XYLENE	27	53.00-139.00	All Target Analytes	J (all detects) UJ (all non-detects)
SL-114-SA6-SB-9.0 -10.0	TETRACHLORO-M-XYLENE	43	53.00-139.00	All Target Analytes	J(all detects) UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA6-SB-4.0-5.0	BORON	J	4.54	5.61	PQL	mg/Kg	J (all detects)
	SODIUM	J	109	112	PQL	mg/Kg	
	TIN	J	3.37	11.2	PQL	mg/Kg	
	Zirconium	J	2.98	5.61	PQL	mg/Kg	
SL-022-SA6-SB-0.0-1.0	BORON	J	4.97	5.05	PQL	mg/Kg	J (all detects)
	TIN	J	3.37	10.1	PQL	mg/Kg	
	Zirconium	J	2.13	5.05	PQL	mg/Kg	
SL-023-SA6-SB-0.0-1.0	BORON	J	3.38	5.12	PQL	mg/Kg	J (all detects)
	SODIUM	J	88.2	102	PQL	mg/Kg	
	TIN	J	2.95	10.2	PQL	mg/Kg	
	Zirconium	J	1.30	5.12	PQL	mg/Kg	
SL-060-SA5DN-SB-4.0-5.0	SODIUM	J	94.5	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	10.1	PQL	mg/Kg	
SL-060-SA5DN-SB-7.0-8.0	TIN	J	2.90	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.64	5.67	PQL	mg/Kg	
SL-114-SA6-SB-4.0-5.0	BORON	J	4.32	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.7	PQL	mg/Kg	
	Zirconium	J	1.83	5.33	PQL	mg/Kg	
SL-114-SA6-SB-9.0-10.0	TIN	J	3.28	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.59	5.45	PQL	mg/Kg	
SL-198-SA5DN-SB-4.0-5.0	TIN	J	3.38	11.4	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-9.0-10.0	TIN	J	3.04	10.8	PQL	mg/Kg	J (all detects)

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA6-SB-4.0-5.0	CADMIUM	J	0.0497	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0695	0.449	PQL	mg/Kg	
	SILVER	J	0.0255	0.112	PQL	mg/Kg	
SL-022-SA6-SB-0.0-1.0	CADMIUM	J	0.0504	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.136	0.420	PQL	mg/Kg	
SL-023-SA6-SB-0.0-1.0	CADMIUM	J	0.0848	0.103	PQL	mg/Kg	J (all detects)
SL-060-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0923	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0789	0.413	PQL	mg/Kg	
	SILVER	J	0.0514	0.103	PQL	mg/Kg	
SL-060-SA5DN-SB-7.0-8.0	ANTIMONY	J	0.124	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0825	0.454	PQL	mg/Kg	
	SILVER	J	0.0490	0.113	PQL	mg/Kg	
SL-114-SA6-SB-4.0-5.0	CADMIUM	J	0.0779	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0733	0.406	PQL	mg/Kg	
	SILVER	J	0.0259	0.102	PQL	mg/Kg	
SL-114-SA6-SB-9.0-10.0	ANTIMONY	J	0.0966	0.222	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0790	0.111	PQL	mg/Kg	
	SELENIUM	J	0.223	0.445	PQL	mg/Kg	
SL-198-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.160	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.251	0.443	PQL	mg/Kg	
SL-198-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0819	0.441	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0482	0.110	PQL	mg/Kg	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.80	1.1	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.2	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA6-SB-0.0-1.0	MERCURY	J	0.0189	0.102	PQL	mg/Kg	J (all detects)
SL-023-SA6-SB-0.0-1.0	MERCURY	J	0.0574	0.0992	PQL	mg/Kg	J (all detects)
SL-114-SA6-SB-9.0-10.0	MERCURY	J	0.0212	0.110	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	MERCURY	J	0.0314	0.107	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-9.0-10.0	MERCURY	J	0.0120	0.108	PQL	mg/Kg	J (all detects)

Method: 8015B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-9.0-10.0	METHANOL	J	200	560	PQL	ug/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-4.0-5.0	EFH (C21-C30) EFH (C30-C40)	J J	0.64 0.85	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-114-SA6-SB-9.0-10.0	EFH (C21-C30)	J	1.2	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA5DN-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	0.95 0.43	1.8 1.8	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-114-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.56	1.8	PQL	ug/Kg	J (all detects)
SL-114-SA6-SB-9.0-10.0	AROCLOR 1260	J	1.5	1.9	PQL	ug/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	Aroclor 5460	J	3.3	3.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE218 **Laboratory: LL**

EDD Filename: DE218_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA6-SB-0.0-1.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	350	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	32	170	PQL	ug/Kg	
SL-114-SA6-SB-4.0-5.0	BENZO(A)PYRENE	J	150	180	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	110	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	58	180	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	32	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	110	180	PQL	ug/Kg	

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA6-SB-0.0-1.0	PYRENE	J	4.2	8.8	PQL	ug/Kg	J (all detects)
SL-023-SA6-SB-0.0-1.0	PYRENE	J	3.9	8.7	PQL	ug/Kg	J (all detects)
SL-060-SA5DN-SB-7.0-8.0	BENZO(A)ANTHRACENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.94	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	
	PHENANTHRENE	J	1.8	1.9	PQL	ug/Kg	
SL-114-SA6-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.83	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	19	PQL	ug/Kg	
	FLUORENE	J	0.95	1.8	PQL	ug/Kg	
SL-114-SA6-SB-9.0-10.0	ACENAPHTHYLENE	J	0.38	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.90	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.99	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	1.9	PQL	ug/Kg	
	PYRENE	J	1.3	1.9	PQL	ug/Kg	
SL-198-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	6.7	9.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	9.0	9.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	5.9	9.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	5.9	9.7	PQL	ug/Kg	
	PHENANTHRENE	J	5.5	9.7	PQL	ug/Kg	

LDC #: 26533G4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/2/11
SDG #: DE218 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: V
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	See DE217
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: Soil

1	SL-010-SA6-SB-4.0-5.0	11	MS	21		31	
2	SL-022-SA6-SB-0.0-1.0	12		22		32	
3	SL-023-SA6-SB-0.0-1.0	13		23		33	
4	SL-114-SA6-SB-4.0-5.0	14		24		34	
5	SL-114-SA6-SB-9.0-10.0	15		25		35	
6	SL-060-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-060-SA5DN-SB-7.0-5.0	17		27		37	
8	SL-198-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-198-SA5DN-SB-9.0-10.0	19		29		39	
10		20		30		40	

Notes: _____

LDC #: 26533G4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 200X
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	5	6	7	8						
Sb			0.36	0.36	0.097	0.092	0.12	0.16						
Be			0.053	0.053										
Tl			0.095	0.095										
V			0.11	0.11										

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE219

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	TB-080811	6369638	TB	5030B	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3050B	6010B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3050B	6020	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3060A	7199	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8015B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8082	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8270C	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8270C SIM	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	5035	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	300.0	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	314.0	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	7471A	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	8015B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3050B	6010B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3050B	6020	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3060A	7199	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8015B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8082	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8270C	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8270C SIM	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	5035	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	300.0	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	7471A	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	8015B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	8015M	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3050B	6010B	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3050B	6020	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3060A	7199	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8082	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8270C	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8270C SIM	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	300.0	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	314.0	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	7471A	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3050B	6010B	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3050B	6020	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3060A	7199	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8082	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8270C	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8270C SIM	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	300.0	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	314.0	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	7471A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3050B	6010B	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3050B	6020	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3060A	7199	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8082	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8270C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8270C SIM	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	8330	8330A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	300.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	7471A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0DU	P369631D270814A	DUP	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0DU	P369631D271332B	DUP	METHOD	300.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0MS	P369631R270837A	MS	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0MS	P369631R271347B	MS	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3050B	6010B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3050B	6020	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3060A	7199	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8015B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8015M	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8082	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8270C	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8270C SIM	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	5035	8015M	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	314.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	7471A	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	8015B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3050B	6010B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3050B	6020	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3060A	7199	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8015B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8082	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8270C	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8270C SIM	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	5035	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	314.0	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	7471A	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	8015B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory:** LL

EDD Filename: DE219_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: SL-031-SA6-SB-4.0-5.0 ***Collected:*** 8/8/2011 2:50:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0 ***Collected:*** 8/8/2011 3:00:00 PM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-083-SA5DN-SB-4.0-5.0 ***Collected:*** 8/8/2011 11:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	13.8		0.93	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0 ***Collected:*** 8/8/2011 8:34:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.92	U	0.92	MDL	1.2	PQL	mg/Kg	R	Q

Sample ID: SL-153-SA5DN-SB-7.0-8.0 ***Collected:*** 8/8/2011 9:50:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-4.0-5.0 ***Collected:*** 8/8/2011 8:20:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-9.0-10.0 ***Collected:*** 8/8/2011 8:30:00 AM ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-031-SA6-SB-4.0-5.0** ***Collected:*** **8/8/2011 2:50:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.39	J	0.379	MDL	5.27	PQL	mg/Kg	U	B
MANGANESE	365		0.0379	MDL	0.527	PQL	mg/Kg	J	Q, E
PHOSPHORUS	322		0.369	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3500		11.9	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	79.7	J	6.27	MDL	105	PQL	mg/Kg	J	Z
TIN	2.31	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.11	J	0.484	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: **SL-031-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 3:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.03	J	0.387	MDL	5.37	PQL	mg/Kg	U	B
MANGANESE	190		0.0387	MDL	0.537	PQL	mg/Kg	J	Q, E
PHOSPHORUS	222		0.376	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2830		12.1	MDL	53.7	PQL	mg/Kg	J	Q
TIN	2.77	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.25	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

Sample ID: **SL-083-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 11:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	406		0.0398	MDL	0.553	PQL	mg/Kg	J	Q, E
PHOSPHORUS	452		0.387	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3010		12.5	MDL	55.3	PQL	mg/Kg	J	Q
TIN	2.13	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.69	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

Sample ID: **SL-153-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 8:34:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.35	J	0.414	MDL	5.75	PQL	mg/Kg	J	Z
MANGANESE	522		0.0414	MDL	0.575	PQL	mg/Kg	J	Q, E
PHOSPHORUS	423		0.403	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	5180		13.0	MDL	57.5	PQL	mg/Kg	J	Q
TIN	3.16	J	0.368	MDL	11.5	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-153-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 8:34:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	5.34	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: **SL-153-SA5DN-SB-7.0-8.0** ***Collected:*** **8/8/2011 9:50:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.78	J	0.409	MDL	5.68	PQL	mg/Kg	U	B
MANGANESE	427		0.0409	MDL	0.568	PQL	mg/Kg	J	Q, E
PHOSPHORUS	805		0.398	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3640		12.8	MDL	56.8	PQL	mg/Kg	J	Q
TIN	2.86	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: **SL-273-SA6-SB-4.0-5.0** ***Collected:*** **8/8/2011 8:20:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.76	J	0.378	MDL	5.25	PQL	mg/Kg	U	B
MANGANESE	247		0.0378	MDL	0.525	PQL	mg/Kg	J	Q, E
PHOSPHORUS	350		0.367	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2910		11.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.54	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: **SL-273-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 8:30:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.48	J	0.403	MDL	5.60	PQL	mg/Kg	U	B
MANGANESE	255		0.0403	MDL	0.560	PQL	mg/Kg	J	Q, E
PHOSPHORUS	306		0.392	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	2680		12.7	MDL	56.0	PQL	mg/Kg	J	Q
TIN	2.81	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.515	MDL	5.60	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-031-SA6-SB-4.0-5.0 **Collected: 8/8/2011 2:50:00 PM** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-031-SA6-SB-4.0-5.0 **Collected: 8/8/2011 2:50:00 PM** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0787	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.65		0.0851	MDL	0.425	PQL	mg/Kg	J	Q
CHROMIUM	17.5		0.128	MDL	0.425	PQL	mg/Kg	J	E, A
COBALT	6.66		0.0213	MDL	0.106	PQL	mg/Kg	J	E
COPPER	10.9		0.0851	MDL	0.425	PQL	mg/Kg	J	E
LEAD	6.53		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	13.3		0.106	MDL	0.425	PQL	mg/Kg	J	Q, A
SILVER	0.0325	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	35.7		0.0234	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	67.8		0.596	MDL	3.19	PQL	mg/Kg	J	Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0 **Collected: 8/8/2011 3:00:00 PM** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.212	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0 **Collected: 8/8/2011 3:00:00 PM** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0803	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.33		0.0868	MDL	0.434	PQL	mg/Kg	J	Q
CHROMIUM	19.5		0.130	MDL	0.434	PQL	mg/Kg	J	E, A
COBALT	8.09		0.0217	MDL	0.108	PQL	mg/Kg	J	E
COPPER	11.3		0.0868	MDL	0.434	PQL	mg/Kg	J	E
LEAD	6.37		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, Q
NICKEL	15.2		0.108	MDL	0.434	PQL	mg/Kg	J	Q, A
SILVER	0.0579	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	39.1		0.0239	MDL	0.108	PQL	mg/Kg	J	E, A
ZINC	67.8		0.607	MDL	3.25	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-083-SA5DN-SB-4.0-5.0 **Collected: 8/8/2011 11:45:00** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-083-SA5DN-SB-4.0-5.0 **Collected: 8/8/2011 11:45:00** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.330		0.0826	MDL	0.223	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.55		0.0893	MDL	0.447	PQL	mg/Kg	J	Q
CHROMIUM	39.0		0.134	MDL	0.447	PQL	mg/Kg	J	E, A
COBALT	13.7		0.0223	MDL	0.112	PQL	mg/Kg	J	E
COPPER	20.1		0.0893	MDL	0.447	PQL	mg/Kg	J	E
LEAD	12.3		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, Q
NICKEL	26.6		0.112	MDL	0.447	PQL	mg/Kg	J	Q, A
SILVER	0.0528	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	73.5		0.0246	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	82.8		0.625	MDL	3.35	PQL	mg/Kg	J	Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0 **Collected: 8/8/2011 8:34:00 AM** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.236	J	0.0667	MDL	0.460	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0 **Collected: 8/8/2011 8:34:00 AM** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.328		0.0852	MDL	0.230	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.92		0.0921	MDL	0.460	PQL	mg/Kg	J	Q
CHROMIUM	41.0		0.138	MDL	0.460	PQL	mg/Kg	J	E, A
COBALT	15.3		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	23.1		0.0921	MDL	0.460	PQL	mg/Kg	J	E
LEAD	12.0		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	29.2		0.115	MDL	0.460	PQL	mg/Kg	J	Q, A
SILVER	0.0524	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	75.9		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	97.2		0.644	MDL	3.45	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: **METALS**

Method: **6020** ***Matrix:*** **SO**

Sample ID: **SL-153-SA5DN-SB-7.0-8.0** ***Collected:*** **8/8/2011 9:50:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.376	J	0.0659	MDL	0.455	PQL	mg/Kg	J	Z, Q, E

Sample ID: **SL-153-SA5DN-SB-7.0-8.0** ***Collected:*** **8/8/2011 9:50:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.335		0.0841	MDL	0.227	PQL	mg/Kg	UJ	Q, B
ARSENIC	12.7		0.0909	MDL	0.455	PQL	mg/Kg	J	Q
CHROMIUM	48.7		0.136	MDL	0.455	PQL	mg/Kg	J	E, A
COBALT	14.4		0.0227	MDL	0.114	PQL	mg/Kg	J	E
COPPER	28.2		0.0909	MDL	0.455	PQL	mg/Kg	J	E
LEAD	14.8		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, Q
NICKEL	40.2		0.114	MDL	0.455	PQL	mg/Kg	J	Q, A
VANADIUM	77.2		0.0250	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	110		0.637	MDL	3.41	PQL	mg/Kg	J	Q, E

Sample ID: **SL-273-SA6-SB-4.0-5.0** ***Collected:*** **8/8/2011 8:20:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0784	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z, Q, E

Sample ID: **SL-273-SA6-SB-4.0-5.0** ***Collected:*** **8/8/2011 8:20:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.117	J	0.0784	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.73		0.0848	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.0819	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	14.2		0.127	MDL	0.424	PQL	mg/Kg	J	E, A
COBALT	5.53		0.0212	MDL	0.106	PQL	mg/Kg	J	E
COPPER	6.36		0.0848	MDL	0.424	PQL	mg/Kg	J	E
LEAD	4.65		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q
NICKEL	8.89		0.106	MDL	0.424	PQL	mg/Kg	J	Q, A
VANADIUM	32.2		0.0233	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	71.6		0.594	MDL	3.18	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-273-SA6-SB-9.0-10.0 **Collected: 8/8/2011 8:30:00 AM** **Analysis Type: REA** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0650	MDL	0.448	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-273-SA6-SB-9.0-10.0 **Collected: 8/8/2011 8:30:00 AM** **Analysis Type: RES** **Dilution: 2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0912	J	0.0829	MDL	0.224	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.05		0.0896	MDL	0.448	PQL	mg/Kg	J	Q
CADMIUM	0.0906	J	0.0493	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	15.2		0.134	MDL	0.448	PQL	mg/Kg	J	E, A
COBALT	6.34		0.0224	MDL	0.112	PQL	mg/Kg	J	E
COPPER	7.01		0.0896	MDL	0.448	PQL	mg/Kg	J	E
LEAD	6.19		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, Q
NICKEL	9.87		0.112	MDL	0.448	PQL	mg/Kg	J	Q, A
SILVER	0.0307	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	32.9		0.0246	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	64.7		0.627	MDL	3.36	PQL	mg/Kg	J	Q, E

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-031-SA6-SB-4.0-5.0 **Collected: 8/8/2011 2:50:00 PM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA6-SB-9.0-10.0 **Collected: 8/8/2011 3:00:00 PM** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5DN-SB-4.0-5.0 **Collected: 8/8/2011 11:45:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-153-SA5DN-SB-4.0-5.0 *Collected:* 8/8/2011 8:34:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-7.0-8.0 *Collected:* 8/8/2011 9:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-031-SA6-SB-9.0-10.0 *Collected:* 8/8/2011 3:00:00 PM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.50	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.87	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-273-SA6-SB-4.0-5.0 *Collected:* 8/8/2011 8:20:00 AM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.56	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-031-SA6-SB-4.0-5.0 *Collected:* 8/8/2011 2:50:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-031-SA6-SB-9.0-10.0 *Collected:* 8/8/2011 3:00:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-031-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 3:00:00 PM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: **SL-083-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 11:45:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-153-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 8:34:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-153-SA5DN-SB-7.0-8.0** ***Collected:*** **8/8/2011 9:50:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-273-SA6-SB-4.0-5.0** ***Collected:*** **8/8/2011 8:20:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: **SL-273-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 8:30:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-273-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 8:30:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: **SL-031-SA6-SB-4.0-5.0** ***Collected:*** **8/8/2011 2:50:00 PM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.38	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: **SL-083-SA5DN-SB-4.0-5.0** ***Collected:*** **8/8/2011 11:45:00** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.8	MDL	21	PQL	ug/Kg	J	Z

Sample ID: **SL-153-SA5DN-SB-7.0-8.0** ***Collected:*** **8/8/2011 9:50:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: **SL-273-SA6-SB-9.0-10.0** ***Collected:*** **8/8/2011 8:30:00 AM** ***Analysis Type:*** **RES-BASE/NEUTRAL** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DE219

Method Blank Outlier Report

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408BB220447	8/16/2011 4:47:00 AM	ALUMINUM	7.29 mg/Kg	SL-031-SA6-SB-4.0-5.0
		BORON	0.823 mg/Kg	SL-031-SA6-SB-9.0-10.0
		CALCIUM	16.5 mg/Kg	SL-083-SA5DN-SB-4.0-5.0
		MAGNESIUM	0.482 mg/Kg	SL-153-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.19 mg/Kg	SL-153-SA5DN-SB-7.0-8.0
		STRONTIUM	0.0910 mg/Kg	SL-273-SA6-SB-4.0-5.0
		TIN	1.66 mg/Kg	SL-273-SA6-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-031-SA6-SB-4.0-5.0(RES)	BORON	3.39 mg/Kg	3.39U mg/Kg
SL-031-SA6-SB-4.0-5.0(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-031-SA6-SB-9.0-10.0(RES)	BORON	3.03 mg/Kg	3.03U mg/Kg
SL-031-SA6-SB-9.0-10.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	TIN	2.13 mg/Kg	2.13U mg/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	BORON	3.78 mg/Kg	3.78U mg/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-273-SA6-SB-4.0-5.0(RES)	BORON	1.76 mg/Kg	1.76U mg/Kg
SL-273-SA6-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-273-SA6-SB-9.0-10.0(RES)	BORON	2.48 mg/Kg	2.48U mg/Kg
SL-273-SA6-SB-9.0-10.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **300.0**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-083-SA5DN-SB-4.0-5.0MS (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	FLUORIDE	27	-	80.00-120.00	-	FLUORIDE	J (all detects) R (all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-083-SA5DN-SB-4.0-5.0DUP (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	FLUORIDE	53	20.00	J (all detects) UJ (all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408BQ220451	ALUMINUM	141	-	80.00-120.00	-	ALUMINUM	
(SL-031-SA6-SB-4.0-5.0	IRON	135	-	80.00-120.00	-	IRON	
SL -031-SA6-SB-9.0-10.0	TITANIUM	182	-	80.00-120.00	-	TITANIUM	No Qual, SRM within QC Limits
SL -083-SA5DN -SB-4.0-5.0							
SL -153-SA5DN -SB-4.0-5.0							
SL -153-SA5DN -SB-7.0-8.0							
SL -273-SA6-SB-4.0-5.0							
SL -273-SA6-SB-9.0-10.0)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LELCSQ261858	4,6-DINITRO-2-METHYLPHENOL	31	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	
(SL-031-SA6-SB-4.0-5.0	BENZOIC ACID	36	-	62.00-113.00	-	BENZOIC ACID	
SL -031-SA6-SB-9.0-10.0	BIS(2-CHLOROETHOXY)METHA	67	-	70.00-118.00	-	BIS(2-CHLOROETHOXY)METH	J(all detects) UJ(all non-detects)
SL -083-SA5DN -SB-4.0-5.0							
SL -153-SA5DN -SB-4.0-5.0							
SL -153-SA5DN -SB-7.0-8.0							
SL -273-SA6-SB-4.0-5.0							
SL -273-SA6-SB-9.0-10.0)							

Reporting Limit Outliers

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	BORON	J	3.39	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	79.7	105	PQL	mg/Kg	
	TIN	J	2.31	10.5	PQL	mg/Kg	
	Zirconium	J	2.11	5.27	PQL	mg/Kg	
SL-031-SA6-SB-9.0-10.0	BORON	J	3.03	5.37	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.7	PQL	mg/Kg	
	Zirconium	J	2.25	5.37	PQL	mg/Kg	
SL-083-SA5DN-SB-4.0-5.0	TIN	J	2.13	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.69	5.53	PQL	mg/Kg	
SL-153-SA5DN-SB-4.0-5.0	BORON	J	5.35	5.75	PQL	mg/Kg	J (all detects)
	TIN	J	3.16	11.5	PQL	mg/Kg	
	Zirconium	J	5.34	5.75	PQL	mg/Kg	
SL-153-SA5DN-SB-7.0-8.0	BORON	J	3.78	5.68	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	11.4	PQL	mg/Kg	
SL-273-SA6-SB-4.0-5.0	BORON	J	1.76	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	2.54	10.5	PQL	mg/Kg	
	Zirconium	J	1.30	5.25	PQL	mg/Kg	
SL-273-SA6-SB-9.0-10.0	BORON	J	2.48	5.60	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	11.2	PQL	mg/Kg	
	Zirconium	J	1.95	5.60	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	ANTIMONY	J	0.136	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.425	PQL	mg/Kg	
	SILVER	J	0.0325	0.106	PQL	mg/Kg	
SL-031-SA6-SB-9.0-10.0	ANTIMONY	J	0.104	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.212	0.434	PQL	mg/Kg	
	SILVER	J	0.0579	0.108	PQL	mg/Kg	
SL-083-SA5DN-SB-4.0-5.0	SELENIUM	J	0.108	0.447	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0528	0.112	PQL	mg/Kg	
SL-153-SA5DN-SB-4.0-5.0	SELENIUM	J	0.236	0.460	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0524	0.115	PQL	mg/Kg	
SL-153-SA5DN-SB-7.0-8.0	SELENIUM	J	0.376	0.455	PQL	mg/Kg	J (all detects)
SL-273-SA6-SB-4.0-5.0	ANTIMONY	J	0.117	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0819	0.106	PQL	mg/Kg	
	SELENIUM	J	0.0784	0.424	PQL	mg/Kg	
SL-273-SA6-SB-9.0-10.0	ANTIMONY	J	0.0912	0.224	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0906	0.112	PQL	mg/Kg	
	SELENIUM	J	0.144	0.448	PQL	mg/Kg	
	SILVER	J	0.0307	0.112	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE219 **Laboratory: LL**

EDD Filename: DE219_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-031-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-083-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.2	PQL	mg/Kg	J (all detects)
SL-153-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.2	PQL	mg/Kg	J (all detects)
SL-153-SA5DN-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.26	1.2	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-9.0-10.0	EFH (C21-C30) EFH (C30-C40)	J J	0.50 0.87	1.3 1.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-273-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.56	1.3	PQL	mg/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	ANTHRACENE BENZO(G,H,I)PERYLENE BIS(2-ETHYLHEXYL)PHTHALATE INDENO(1,2,3-CD)PYRENE	J J J J	0.38 1.6 11 1.2	1.8 1.8 19 1.8	PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)
SL-083-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	21	PQL	ug/Kg	J (all detects)
SL-153-SA5DN-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	20	PQL	ug/Kg	J (all detects)
SL-273-SA6-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)

LDC #: 26533H4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE219 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	See DE220.
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, Ni, V. J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	SL-083-SA5DN-SB-4.0-5.0	11	MB	21		31	
2	SL-153-SA5DN-SB-4.0-5.0	12		22		32	
3	SL-153-SA5DN-SB-7.0-8.0	13		23		33	
4	SL-273-SA6-SB-4.0-5.0	14		24		34	
5	SL-273-SA6-SB-9.0-10.0	15		25		35	
6	SL-031-SA6-SB-4.0-5.0	16		26		36	
7	SL-031-SA6-SB-9.0-10.0	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 26533H4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: 200X
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	4	5	6	7			
Sb			0.38	0.38	0.33	0.33	0.33	0.12	0.091	0.14	0.10			
Be			0.057	0.057										

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE220

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	TB-080911	6371362	TB	5030B	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3050B	6010B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3050B	6020	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3060A	7199	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8015B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8082	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8270C	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8270C SIM	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	5035	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	300.0	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	314.0	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	7471A	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	8015B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3050B	6010B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3050B	6020	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3060A	7199	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3546	1625C	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8082	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8270C	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8270C SIM	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	5035	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	8330	8330A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	300.0	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	314.0	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	7471A	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8315A	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	9012B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3050B	6010B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3050B	6020	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3060A	7199	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3546	1625C	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8082	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8270C	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8270C SIM	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	5035	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	8330	8330A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	300.0	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	314.0	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	7471A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8315A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	9012B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3050B	6020	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3060A	7199	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8015B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8015M	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8082	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8270C	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8270C SIM	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	5035	8015M	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	300.0	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	314.0	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	7471A	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	8015B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	8015M	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3050B	6010B	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3050B	6020	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3060A	7199	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8082	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8270C	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8270C SIM	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	300.0	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	314.0	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	6850	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	7471A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3005A	6010B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3020A	6020	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8015B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8082	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8270C	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8270C SIM	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3520C	1625C	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8260B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8260B SIM	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	8330	8330A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	300.0	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	314.0	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	7199	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	8015B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	7470A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	8315A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3050B	6010B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3050B	6020	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3060A	7199	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3546	1625C	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8015B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8082	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8270C	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	5035	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	8330	8330A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	300.0	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	314.0	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	7471A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8015B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8315A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5DUP	P371361D271346A	DUP	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5MS	P371361R271347A	MS	METHOD	9012B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8270C SIM	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	7471A	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3050B	6010B	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3050B	6020	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3060A	7199	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8082	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8270C	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8270C SIM	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	300.0	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	314.0	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8270C SIM	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	314.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	6850	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP24-SA5DN-QC-080911 **Collected:** 8/9/2011 3:28:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.6		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-4.0-5.0 **Collected:** 8/9/2011 3:25:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.7		0.90	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0 **Collected:** 8/9/2011 4:15:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.4		0.92	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA5DN-SB-4.0-5.0 **Collected:** 8/9/2011 11:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.9		0.92	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-4.0-5.0 **Collected:** 8/9/2011 8:50:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.83	MDL	1.0	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-9.0-10.0 **Collected:** 8/9/2011 9:30:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.3	J	0.93	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 **Collected:** 8/9/2011 9:56:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.2		0.86	MDL	1.1	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory:** LL

EDD Filename: DE220_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM **Method:** 300.0 **Matrix:** SO

Sample ID: SL-044-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 8:09:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.4		0.96	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.88	U	0.88	MDL	1.1	PQL	mg/Kg	UJ	Q, E
Nitrate-NO3	1.5	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z

Method Category: METALS **Method:** 6010B **Matrix:** AQ

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0080	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00053	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.03	J	0.400	MDL	5.56	PQL	mg/Kg	U	B, F
MANGANESE	166		0.0400	MDL	0.556	PQL	mg/Kg	J	Q, E
PHOSPHORUS	184		0.389	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	2270		12.6	MDL	55.6	PQL	mg/Kg	J	Q
SODIUM	102	J	6.61	MDL	111	PQL	mg/Kg	J	Z
TIN	2.56	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.12	J	0.511	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 3:25:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.91	J	0.384	MDL	5.33	PQL	mg/Kg	U	B, F

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-009-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 3:25:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	137		0.0384	MDL	0.533	PQL	mg/Kg	J	Q, E
PHOSPHORUS	178		0.373	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2190		12.0	MDL	53.3	PQL	mg/Kg	J	Q
SODIUM	95.4	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	2.65	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: **SL-009-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 4:15:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	386		0.0409	MDL	0.569	PQL	mg/Kg	J	Q, E
PHOSPHORUS	398		0.398	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3480		12.9	MDL	56.9	PQL	mg/Kg	J	Q
TIN	2.62	J	0.364	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.99	J	0.523	MDL	5.69	PQL	mg/Kg	J	Z

Sample ID: **SL-011-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 11:40:00** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.85	J	0.397	MDL	5.51	PQL	mg/Kg	U	B, F
MANGANESE	479		0.0397	MDL	0.551	PQL	mg/Kg	J	Q, E
PHOSPHORUS	253		0.386	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	2220		12.4	MDL	55.1	PQL	mg/Kg	J	Q
TIN	2.64	J	0.353	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.07	J	0.507	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: **SL-012-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 8:50:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.79	J	0.370	MDL	5.14	PQL	mg/Kg	U	B, F
MANGANESE	177		0.0370	MDL	0.514	PQL	mg/Kg	J	Q, E
PHOSPHORUS	1570		0.360	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	2750		11.6	MDL	51.4	PQL	mg/Kg	J	Q
TIN	1.46	J	0.329	MDL	10.3	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: **SL-012-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 9:30:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.59	J	0.410	MDL	5.70	PQL	mg/Kg	J	Z
MANGANESE	290		0.0410	MDL	0.570	PQL	mg/Kg	J	Q, E
PHOSPHORUS	369		0.399	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	2920		12.9	MDL	57.0	PQL	mg/Kg	J	Q
TIN	2.67	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.92	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: **SL-042-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 9:56:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.86	J	0.383	MDL	5.32	PQL	mg/Kg	U	B, F
MANGANESE	352		0.0383	MDL	0.532	PQL	mg/Kg	J	Q, E
PHOSPHORUS	369		0.373	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2940		12.0	MDL	53.2	PQL	mg/Kg	J	Q
TIN	2.37	J	0.341	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.490	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: **SL-044-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 8:09:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.14	J	0.419	MDL	5.81	PQL	mg/Kg	U	B, F
MANGANESE	301		0.0419	MDL	0.581	PQL	mg/Kg	J	Q, E
PHOSPHORUS	340		0.407	MDL	11.6	PQL	mg/Kg	J	Q
POTASSIUM	2920		13.1	MDL	58.1	PQL	mg/Kg	J	Q
TIN	2.75	J	0.372	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	1.87	J	0.535	MDL	5.81	PQL	mg/Kg	J	Z

Sample ID: **SL-049-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 2:15:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.80	J	0.379	MDL	5.27	PQL	mg/Kg	U	B, F
MANGANESE	176		0.0379	MDL	0.527	PQL	mg/Kg	J	Q, E
PHOSPHORUS	264		0.369	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	1770		11.9	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	90.3	J	6.27	MDL	105	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.97	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.30	J	0.485	MDL	5.27	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix: AQ**

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 1:00:00 PM *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000083	J	0.000080	MDL	0.0010	PQL	mg/L	J	Z

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0638	U	0.0638	MDL	0.440	PQL	mg/Kg	UJ	E

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0814	MDL	0.220	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.39		0.0880	MDL	0.440	PQL	mg/Kg	J	Q
CADMIUM	0.0779	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	20.9		0.132	MDL	0.440	PQL	mg/Kg	J	E, A
COBALT	5.43		0.0220	MDL	0.110	PQL	mg/Kg	J	E, FD
COPPER	10.7		0.0880	MDL	0.440	PQL	mg/Kg	J	E
LEAD	7.02		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, Q
NICKEL	13.1		0.110	MDL	0.440	PQL	mg/Kg	J	Q, A
SILVER	0.0572	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	41.6		0.0242	MDL	0.110	PQL	mg/Kg	J	E, A
ZINC	47.3		0.616	MDL	3.30	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory:** LL

EDD Filename: DE220_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-009-SA5DN-SB-4.0-5.0 ***Collected:*** 8/9/2011 3:25:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0618	U	0.0618	MDL	0.426	PQL	mg/Kg	UJ	E

Sample ID: SL-009-SA5DN-SB-4.0-5.0 ***Collected:*** 8/9/2011 3:25:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.236		0.0789	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.33		0.0853	MDL	0.426	PQL	mg/Kg	J	Q
CHROMIUM	15.6		0.128	MDL	0.426	PQL	mg/Kg	J	E, A
COBALT	11.9		0.0213	MDL	0.107	PQL	mg/Kg	J	E, FD
COPPER	8.73		0.0853	MDL	0.426	PQL	mg/Kg	J	E
LEAD	7.94		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	13.0		0.107	MDL	0.426	PQL	mg/Kg	J	Q, A
SILVER	0.0481	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	34.5		0.0235	MDL	0.107	PQL	mg/Kg	J	E, A
ZINC	38.7		0.597	MDL	3.20	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0 ***Collected:*** 8/9/2011 4:15:00 PM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0666	MDL	0.459	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0 ***Collected:*** 8/9/2011 4:15:00 PM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.853		0.0850	MDL	0.230	PQL	mg/Kg	J	Q
ARSENIC	12.1		0.0919	MDL	0.459	PQL	mg/Kg	J	Q
CHROMIUM	35.3		0.138	MDL	0.459	PQL	mg/Kg	J	E, A
COBALT	14.5		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	20.2		0.0919	MDL	0.459	PQL	mg/Kg	J	E
LEAD	14.6		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	28.5		0.115	MDL	0.459	PQL	mg/Kg	J	Q, A
SILVER	0.0668	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	76.9		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	80.8		0.643	MDL	3.45	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory:** LL

EDD Filename: DE220_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-011-SA5DN-SB-4.0-5.0 ***Collected:*** 8/9/2011 11:40:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0639	U	0.0639	MDL	0.441	PQL	mg/Kg	UJ	E

Sample ID: SL-011-SA5DN-SB-4.0-5.0 ***Collected:*** 8/9/2011 11:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.287		0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.19		0.0881	MDL	0.441	PQL	mg/Kg	J	Q
CHROMIUM	24.5		0.132	MDL	0.441	PQL	mg/Kg	J	E, A
COBALT	8.43		0.0220	MDL	0.110	PQL	mg/Kg	J	E
COPPER	12.7		0.0881	MDL	0.441	PQL	mg/Kg	J	E
LEAD	8.23		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, Q
NICKEL	17.6		0.110	MDL	0.441	PQL	mg/Kg	J	Q, A
SILVER	0.0419	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.1		0.0242	MDL	0.110	PQL	mg/Kg	J	E, A
ZINC	49.8		0.617	MDL	3.30	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-4.0-5.0 ***Collected:*** 8/9/2011 8:50:00 AM ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-012-SA5DN-SB-4.0-5.0 ***Collected:*** 8/9/2011 8:50:00 AM ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0760	U	0.0760	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	0.944		0.0822	MDL	0.411	PQL	mg/Kg	J	Q
CADMIUM	0.0708	J	0.0452	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	23.2		0.123	MDL	0.411	PQL	mg/Kg	J	E, A
COBALT	14.5		0.0206	MDL	0.103	PQL	mg/Kg	J	E
COPPER	19.2		0.0822	MDL	0.411	PQL	mg/Kg	J	E
LEAD	1.54		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, Q
NICKEL	29.8		0.103	MDL	0.411	PQL	mg/Kg	J	Q, A
THALLIUM	0.0642	J	0.0308	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	49.0		0.0226	MDL	0.103	PQL	mg/Kg	J	E, A
ZINC	31.7		0.575	MDL	3.08	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-012-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 9:30:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0668	U	0.0668	MDL	0.461	PQL	mg/Kg	UJ	E

Sample ID: **SL-012-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 9:30:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.246		0.0852	MDL	0.230	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.43		0.0921	MDL	0.461	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.138	MDL	0.461	PQL	mg/Kg	J	E, A
COBALT	14.3		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	16.2		0.0921	MDL	0.461	PQL	mg/Kg	J	E
LEAD	9.92		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	23.6		0.115	MDL	0.461	PQL	mg/Kg	J	Q, A
SILVER	0.0868	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	54.3		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	67.9		0.645	MDL	3.45	PQL	mg/Kg	J	Q, E

Sample ID: **SL-042-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 9:56:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0617	MDL	0.426	PQL	mg/Kg	J	Z, Q, E

Sample ID: **SL-042-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 9:56:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0926	J	0.0788	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	2.81		0.0852	MDL	0.426	PQL	mg/Kg	J	Q
CHROMIUM	13.2		0.128	MDL	0.426	PQL	mg/Kg	J	E, A
COBALT	4.48		0.0213	MDL	0.106	PQL	mg/Kg	J	E
COPPER	6.65		0.0852	MDL	0.426	PQL	mg/Kg	J	E
LEAD	4.24		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	8.69		0.106	MDL	0.426	PQL	mg/Kg	J	Q, A
SILVER	0.0434	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	25.1		0.0234	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	48.2		0.596	MDL	3.19	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-044-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 8:09:00 AM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.233	J	0.0688	MDL	0.474	PQL	mg/Kg	J	Z, Q, E

Sample ID: **SL-044-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 8:09:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0878	MDL	0.237	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.40		0.0949	MDL	0.474	PQL	mg/Kg	J	Q
CADMIUM	0.117	J	0.0522	MDL	0.119	PQL	mg/Kg	J	Z
CHROMIUM	17.4		0.142	MDL	0.474	PQL	mg/Kg	J	E, A
COBALT	6.37		0.0237	MDL	0.119	PQL	mg/Kg	J	E
COPPER	8.38		0.0949	MDL	0.474	PQL	mg/Kg	J	E
LEAD	7.07		0.0121	MDL	0.237	PQL	mg/Kg	J	Q, Q
NICKEL	12.1		0.119	MDL	0.474	PQL	mg/Kg	J	Q, A
SILVER	0.0587	J	0.0168	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	36.3		0.0261	MDL	0.119	PQL	mg/Kg	J	E, A
ZINC	72.6		0.664	MDL	3.56	PQL	mg/Kg	J	Q, E

Sample ID: **SL-049-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 2:15:00 PM** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.212	J	0.0624	MDL	0.430	PQL	mg/Kg	J	Z, Q, E

Sample ID: **SL-049-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 2:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0796	MDL	0.215	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.94		0.0860	MDL	0.430	PQL	mg/Kg	J	Q
CHROMIUM	17.0		0.129	MDL	0.430	PQL	mg/Kg	J	E, A
COBALT	4.69		0.0215	MDL	0.108	PQL	mg/Kg	J	E
COPPER	5.54		0.0860	MDL	0.430	PQL	mg/Kg	J	E
LEAD	6.88		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, Q
NICKEL	9.81		0.108	MDL	0.430	PQL	mg/Kg	J	Q, A
SILVER	0.0405	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	40.0		0.0237	MDL	0.108	PQL	mg/Kg	J	E, A
ZINC	43.2		0.602	MDL	3.23	PQL	mg/Kg	J	Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS
Method: 6020 **Matrix: SO**

Method Category: METALS
Method: 7199 **Matrix: SO**

Sample ID: **SL-011-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 11:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: **SL-042-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 9:56:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: **SL-044-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 8:09:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.31	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: **SL-049-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 2:15:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A **Matrix: SO**

Sample ID: **DUP24-SA5DN-QC-080911** ***Collected:*** **8/9/2011 3:28:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0188	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: **SL-009-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 3:25:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0232	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-012-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0123	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-9.0-10.0 *Collected:* 8/9/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0211	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0259	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C **Matrix: AQ**

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 1:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.68		0.511	MDL	1.02	PQL	ng/L	UJ	B, S

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-012-SA5DN-SB-9.0-10.0 *Collected:* 8/9/2011 9:30:00 AM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.68	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 9:56:00 AM *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.93	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA
Method: 8015M **Matrix: SO**

Sample ID: **SL-049-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 2:15:00 PM** ***Analysis Type:*** **REA2** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.45	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 8270C **Matrix: AQ**

Sample ID: **EB-SA6-SB-080911** ***Collected:*** **8/9/2011 1:00:00 PM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	R	L

Method Category: SVOA
Method: 8270C **Matrix: SO**

Sample ID: **DUP24-SA5DN-QC-080911** ***Collected:*** **8/9/2011 3:28:00 PM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-009-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 3:25:00 PM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	R	Q
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	R	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q, L

Sample ID: **SL-009-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 4:15:00 PM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: **SL-011-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 11:40:00** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-012-SA5DN-SB-4.0-5.0** ***Collected:*** **8/9/2011 8:50:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: **SL-012-SA5DN-SB-9.0-10.0** ***Collected:*** **8/9/2011 9:30:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: **SL-042-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 9:56:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: **SL-044-SA6-SB-2.5-3.5** ***Collected:*** **8/9/2011 8:09:00 AM** ***Analysis Type:*** **RES-ACID** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	200	U	200	MDL	590	PQL	ug/Kg	UJ	L
BENZOIC ACID	200	U	200	MDL	590	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	20	U	20	MDL	200	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *Analysis Type:* RES-ACID *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 1:00:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.094	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Butylbenzylphthalate	0.15	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Diethylphthalate	0.065	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.16	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.14	J	0.051	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.048	J	0.030	MDL	0.051	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21		6.7	MDL	20	PQL	ug/Kg	J	FD
Di-n-octylphthalate	52		6.7	MDL	20	PQL	ug/Kg	J	FD

Sample ID: SL-009-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 3:25:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	50		6.7	MDL	20	PQL	ug/Kg	J	Q, FD
Di-n-octylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-011-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 11:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 8:50:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	11	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 9:56:00 AM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.69	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.5	MDL	19	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8315A **Matrix: SO**

Sample ID: SL-012-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	660	J	630	MDL	1600	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8260B **Matrix: AQ**

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	13	J	6	MDL	20	PQL	ug/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE220

Method Blank Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE22B261554	8/16/2011 3:54:00 PM	N-NITROSODIMETHYLAMINE	1.64 ng/L	EB-SA6-SB-080911

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-080911(RES)	N-NITROSODIMETHYLAMINE	3.68 ng/L	3.68U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22448AB221736	8/15/2011 5:36:00 PM	BORON CALCIUM STRONTIUM	0.0067 mg/L 0.0748 mg/L 0.00056 mg/L	EB-SA6-SB-080911

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-080911(RES)	BORON	0.0080 mg/L	0.0080U mg/L
EB-SA6-SB-080911(RES)	STRONTIUM	0.00053 mg/L	0.00053U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408BB220447	8/16/2011 4:47:00 AM	ALUMINUM BORON CALCIUM MAGNESIUM PHOSPHORUS STRONTIUM TIN	7.29 mg/Kg 0.823 mg/Kg 16.5 mg/Kg 0.482 mg/Kg 1.19 mg/Kg 0.0910 mg/Kg 1.66 mg/Kg	DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP24-SA5DN-QC-080911(REA)	BORON	3.03 mg/Kg	3.03U mg/Kg
DUP24-SA5DN-QC-080911(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	BORON	2.91 mg/Kg	2.91U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-009-SA5DN-SB-9.0-10.0(REA)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	BORON	3.85 mg/Kg	3.85U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	BORON	1.79 mg/Kg	1.79U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	TIN	1.46 mg/Kg	1.46U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-012-SA5DN-SB-9.0-10.0(REA)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	BORON	3.86 mg/Kg	3.86U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	BORON	3.14 mg/Kg	3.14U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	BORON	2.80 mg/Kg	2.80U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	TIN	2.97 mg/Kg	2.97U mg/Kg

Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-080911(RES)	8/9/2011 1:00:00 PM	BORON STRONTIUM	0.008 mg/L 0.00053 mg/L	DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP24-SA5DN-QC-080911(REA)	BORON	3.03 mg/Kg	3.03U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	BORON	2.91 mg/Kg	2.91U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	BORON	3.85 mg/Kg	3.85U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	BORON	1.79 mg/Kg	1.79U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	BORON	3.86 mg/Kg	3.86U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	BORON	3.14 mg/Kg	3.14U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	BORON	2.80 mg/Kg	2.80U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	LEAD	4	33	75.00-125.00	-	LEAD	J (all detects) R (all non-detects) post spike = 69%
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	ANTIMONY ARSENIC NICKEL ZINC	45 71 72 71	56 - - -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ANTIMONY ARSENIC NICKEL ZINC	J(all detects) UJ(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	SELENIUM	-	128	75.00-125.00	29 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	BARIUM	-114	-101	75.00-125.00	-	BARIUM	No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	ALUMINUM IRON MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	2060 627 243 126 - 317	2380 2001 275 135 127 287	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM IRON MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	J(all detects) Al, Fe, Mg, Ti, No Qual, >4x
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	MANGANESE	161	306	75.00-125.00	30 (20.00)	MANGANESE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL PENTACHLOROPHENOL	- -	- -	11.00-126.00 28.00-127.00	60 (30.00) 35 (30.00)	4,6-DINITRO-2-METHYLPHEN PENTACHLOROPHENOL	J(all detects)
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (SL-009-SA5DN-SB-4.0-5.0)	2,4-DINITROPHENOL BENZOIC ACID	0 0	- -	20.00-143.00 10.00-173.00	200 (30.00) 200 (30.00)	2,4-DINITROPHENOL BENZOIC ACID	J(all detects) R(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (SL-009-SA5DN-SB-4.0-5.0)	BIS(2-CHLOROETHOXY)METHA	73	73	75.00-104.00	-	BIS(2-CHLOROETHOXY)METH	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (SL-009-SA5DN-SB-4.0-5.0)	ACENAPHTHENE	107	106	63.00-105.00	-	ACENAPHTHENE	J(all detects)
SL-009-SA5DN-SB-4.0-5.0MS **SL-009-SA5DN-SB-4.0-5.0MSD** (SL-009-SA5DN-SB-4.0-5.0)	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALAT	72 23	- 13	73.00-115.00 39.00-167.00	- -	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALA	J(all detects) UJ(all non-detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MS (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP	FLUORIDE	26	20.00	
(DUP24-SA5DN-QC-080911	Nitrate-NO3	35	20.00	
SL-009-SA5DN-SB-4.0-5.0				
SL-009-SA5DN-SB-9.0-10.0				J (all detects)
SL-011-SA5DN-SB-4.0-5.0				UJ (all non-detects)
SL-012-SA5DN-SB-4.0-5.0				
SL-012-SA5DN-SB-9.0-10.0				
SL-042-SA6-SB-2.5-3.5				Nitrate, No Qual,
SL-044-SA6-SB-2.5-3.5				OK by Difference
SL-049-SA6-SB-2.5-3.5)				

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP	CADMIUM	43	20.00	
(DUP24-SA5DN-QC-080911	CHROMIUM	35	20.00	
SL-009-SA5DN-SB-4.0-5.0	COBALT	64	20.00	
SL-009-SA5DN-SB-9.0-10.0	COPPER	23	20.00	J(all detects)
SL-011-SA5DN-SB-4.0-5.0	MOLYBDENUM	21	20.00	UJ(all non-detects)
SL-012-SA5DN-SB-4.0-5.0	THALLIUM	23	20.00	
SL-012-SA5DN-SB-9.0-10.0	VANADIUM	23	20.00	
SL-042-SA6-SB-2.5-3.5	ZINC	23	20.00	Cd, Mo, Tl, No Qual,
SL-044-SA6-SB-2.5-3.5				OK by Difference
SL-049-SA6-SB-2.5-3.5)				

Method: 7471A
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP	MERCURY	50	20.00	
(DUP24-SA5DN-QC-080911				
SL-009-SA5DN-SB-4.0-5.0				
SL-009-SA5DN-SB-9.0-10.0				
SL-011-SA5DN-SB-4.0-5.0				No Qual,
SL-012-SA5DN-SB-4.0-5.0				OK by Difference
SL-012-SA5DN-SB-9.0-10.0				
SL-042-SA6-SB-2.5-3.5				
SL-044-SA6-SB-2.5-3.5				
SL-049-SA6-SB-2.5-3.5)				

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12273AQ240057A	2,4,6-TRINITROTOLUENE	110	-	76.00-109.00	-	2,4,6-TRINITROTOLUENE	
P12273AY240139A	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	J (all detects)
(EB-SA6-SB-080911)	PETN	138	138	80.00-120.00	-	PETN	

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2WGLCSQ260627	4-BROMOPHENYL-PHENYLETH	119	116	75.00-115.00	-	4-BROMOPHENYL-PHENYLET	
P2WGLCSY260651	PENTACHLOROPHENOL	-	115	53.00-110.00	-	PENTACHLOROPHENOL	J(all detects)
(EB-SA6-SB-080911)							
P2WGLCSQ260627	BENZOIC ACID	0	-	10.00-69.00	200 (30.00)	BENZOIC ACID	J(all detects)
P2WGLCSY260651							R(all non-detects)
(EB-SA6-SB-080911)							

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408BQ220451	ALUMINUM	141	-	80.00-120.00	-	ALUMINUM	
(DUP24-SA5DN-QC-080911	IRON	135	-	80.00-120.00	-	IRON	
SL-009-SA5DN-SB-4.0-5.0	TITANIUM	182	-	80.00-120.00	-	TITANIUM	
SL-009-SA5DN-SB-9.0-10.0							
SL-011-SA5DN-SB-4.0-5.0							
SL-012-SA5DN-SB-4.0-5.0							No Qual,
SL-012-SA5DN-SB-9.0-10.0							SRM within QC
SL-042-SA6-SB-2.5-3.5							Limits
SL-044-SA6-SB-2.5-3.5							
SL-049-SA6-SB-2.5-3.5)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LELCSQ261858	4,6-DINITRO-2-METHYLPHENOL	31	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	
(DUP24-SA5DN-QC-080911	BENZOIC ACID	36	-	62.00-113.00	-	BENZOIC ACID	
SL-009-SA5DN-SB-4.0-5.0	BIS(2-CHLOROETHOXY)METHA	67	-	70.00-118.00	-	BIS(2-CHLOROETHOXY)METH	
SL-009-SA5DN-SB-9.0-10.0							
SL-011-SA5DN-SB-4.0-5.0							J(all detects)
SL-012-SA5DN-SB-4.0-5.0							UJ(all non-detects)
SL-012-SA5DN-SB-9.0-10.0							
SL-042-SA6-SB-2.5-3.5							
SL-044-SA6-SB-2.5-3.5							
SL-049-SA6-SB-2.5-3.5)							

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Surrogate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220_v2

eQAPP Name: CDM_SSFL_110509

Method: 1625C
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-080911	N-Nitrosodimethylamine-d6	222	50.00-150.00	All Target Analytes	J (all detects)

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0	DECACHLOROBIPHENYL	133	45.00-120.00	All Target Analytes	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
MOISTURE	9.8	10.9	11		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
FLUORIDE	5.7	6.6	15	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
ALUMINUM	16600	17900	8	50.00	No Qualifiers Applied
BORON	2.91	3.03	4	50.00	
CALCIUM	2500	2510	0	50.00	
IRON	18700	19000	2	50.00	
LITHIUM	17.7	18.5	4	50.00	
MAGNESIUM	3270	3500	7	50.00	
MANGANESE	137	166	19	50.00	
PHOSPHORUS	178	184	3	50.00	
POTASSIUM	2190	2270	4	50.00	
SODIUM	95.4	102	7	50.00	
STRONTIUM	17.0	18.8	10	50.00	
TIN	2.65	2.56	3	50.00	
TITANIUM	979	1040	6	50.00	
Zirconium	3.05	3.12	2	50.00	

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
ANTIMONY	0.236	0.190	22	50.00	No Qualifiers Applied
ARSENIC	5.33	6.39	18	50.00	
BARIUM	96.4	98.5	2	50.00	
BERYLLIUM	0.697	0.804	14	50.00	
CADMIUM	0.112	0.0779	36	50.00	
CHROMIUM	15.6	20.9	29	50.00	
COPPER	8.73	10.7	20	50.00	
LEAD	7.94	7.02	12	50.00	
MOLYBDENUM	0.603	0.409	38	50.00	
NICKEL	13.0	13.1	1	50.00	
SILVER	0.0481	0.0572	17	50.00	
THALLIUM	0.235	0.283	19	50.00	
VANADIUM	34.5	41.6	19	50.00	
ZINC	38.7	47.3	20	50.00	
COBALT	11.9	5.43	75	50.00	J(all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
MERCURY	0.0232	0.0188	21	50.00	No Qualifiers Applied

Method: 8270C SIM
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
BIS(2-ETHYLHEXYL)PHTHALATE	50	21	82	50.00	J(all detects)
Di-n-octylphthalate	20 U	52	200	50.00	UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
PH	7.93	8.11	2	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	BORON	J	0.0080	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00053	0.0050	PQL	mg/L	

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	LEAD	J	0.000083	0.0010	PQL	mg/L	J (all detects)

Method: 8260B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	ACETONE	J	13	20	PQL	ug/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.094	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.15	1.0	PQL	ug/L	
	Diethylphthalate	J	0.065	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.16	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.14	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.048	0.051	PQL	ug/L	

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	BORON	J	3.03	5.56	PQL	mg/Kg	J (all detects)
	SODIUM	J	102	111	PQL	mg/Kg	
	TIN	J	2.56	11.1	PQL	mg/Kg	
	Zirconium	J	3.12	5.56	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5DN-SB-4.0-5.0	BORON	J	2.91	5.33	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.4	107	PQL	mg/Kg	
	TIN	J	2.65	10.7	PQL	mg/Kg	
	Zirconium	J	3.05	5.33	PQL	mg/Kg	
SL-009-SA5DN-SB-9.0-10.0	TIN	J	2.62	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.99	5.69	PQL	mg/Kg	
SL-011-SA5DN-SB-4.0-5.0	BORON	J	3.85	5.51	PQL	mg/Kg	J (all detects)
	TIN	J	2.64	11.0	PQL	mg/Kg	
	Zirconium	J	3.07	5.51	PQL	mg/Kg	
SL-012-SA5DN-SB-4.0-5.0	BORON	J	1.79	5.14	PQL	mg/Kg	J (all detects)
	TIN	J	1.46	10.3	PQL	mg/Kg	
SL-012-SA5DN-SB-9.0-10.0	BORON	J	4.59	5.70	PQL	mg/Kg	J (all detects)
	TIN	J	2.67	11.4	PQL	mg/Kg	
	Zirconium	J	3.92	5.70	PQL	mg/Kg	
SL-042-SA6-SB-2.5-3.5	BORON	J	3.86	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	2.37	10.6	PQL	mg/Kg	
	Zirconium	J	2.54	5.32	PQL	mg/Kg	
SL-044-SA6-SB-2.5-3.5	BORON	J	3.14	5.81	PQL	mg/Kg	J (all detects)
	TIN	J	2.75	11.6	PQL	mg/Kg	
	Zirconium	J	1.87	5.81	PQL	mg/Kg	
SL-049-SA6-SB-2.5-3.5	BORON	J	2.80	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.3	105	PQL	mg/Kg	
	TIN	J	2.97	10.5	PQL	mg/Kg	
	Zirconium	J	2.30	5.27	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	ANTIMONY	J	0.190	0.220	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0779	0.110	PQL	mg/Kg	
	SILVER	J	0.0572	0.110	PQL	mg/Kg	
SL-009-SA5DN-SB-4.0-5.0	SILVER	J	0.0481	0.107	PQL	mg/Kg	J (all detects)
SL-009-SA5DN-SB-9.0-10.0	SELENIUM	J	0.107	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0668	0.115	PQL	mg/Kg	
SL-011-SA5DN-SB-4.0-5.0	SILVER	J	0.0419	0.110	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	CADMIUM	J	0.0708	0.103	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.411	PQL	mg/Kg	
	THALLIUM	J	0.0642	0.103	PQL	mg/Kg	
SL-012-SA5DN-SB-9.0-10.0	SILVER	J	0.0868	0.115	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	ANTIMONY	J	0.0926	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.426	PQL	mg/Kg	
	SILVER	J	0.0434	0.106	PQL	mg/Kg	
SL-044-SA6-SB-2.5-3.5	ANTIMONY	J	0.145	0.237	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.117	0.119	PQL	mg/Kg	
	SELENIUM	J	0.233	0.474	PQL	mg/Kg	
	SILVER	J	0.0587	0.119	PQL	mg/Kg	
SL-049-SA6-SB-2.5-3.5	ANTIMONY	J	0.174	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.212	0.430	PQL	mg/Kg	
	SILVER	J	0.0405	0.108	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE220 **Laboratory: LL**

EDD Filename: DE220_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.28	1.2	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-044-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.30	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	MERCURY	J	0.0188	0.112	PQL	mg/Kg	J (all detects)
SL-009-SA5DN-SB-4.0-5.0	MERCURY	J	0.0232	0.102	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	MERCURY	J	0.0123	0.100	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-9.0-10.0	MERCURY	J	0.0211	0.108	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	MERCURY	J	0.0259	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-9.0-10.0	EFH (C30-C40)	J	0.68	1.4	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	EFH (C30-C40)	J	0.93	1.3	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	EFH (C21-C30)	J	0.45	1.3	PQL	mg/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	Di-n-octylphthalate	J	11	19	PQL	ug/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	CHRYSENE	J	0.69	1.8	PQL	ug/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	19	PQL	ug/Kg	J (all detects)

Method: 8315A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-4.0-5.0	FORMALDEHYDE	J	660	1600	PQL	ug/Kg	J (all detects)

LDC #: 26533I4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11

SDG #: DE220 ADR Page: 1 of 1

Laboratory: Lancaster Laboratories Reviewer: W

2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	W	
III.	Calibration	W	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N SW	Al, Ba, Fe, Mg, Ti >4X
VII.	Duplicate Sample Analysis	N SW	Cd, Hg, Mo, Tl <5X
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, Ni, V J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=4

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	SL-042-SA6-SB-2.5-3.5	11	SL-009-SA5DN-SB-4.0-5.0MS	21		31	
2	SL-044-SA6-SB-2.5-3.5	12	SL-009-SA5DN-SB-4.0-5.0MSD	22		32	
3	SL-049-SA6-SB-2.5-3.5	13	SL-009-SA5DN-SB-4.0-5.0DUP	23		33	
4	EB-SA6-SB-080911	14		24		34	
5	SL-011-SA5DN-SB-4.0-5.0	15		25		35	
6	SL-012-SA5DN-SB-4.0-5.0	16		26		36	
7	SL-012-SA5DN-SB-9.0-10.0	17		27		37	
8	SL-009-SA5DN-SB-4.0-5.0	18		28		38	
9	SL-009-SA5DN-SB-9.0-10.0	19		29		39	
10	DUP24-SA5DN-QC-080911	20		30		40	

Notes:

LDC #: 26533I4

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: A

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

Y N N/A Were field blanks identified in this SDG?

Y N N/A Were target analytes detected in the field blanks?

Blank units: ug/L **Associated sample units:** mg/Kg

Sampling date: 8/9/11 Soil factor applied 100x

Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil

Analyte	Blank ID	Sample Identification											
	4	Action Level	1	2	3	5	6	8	10				
B	8.0	4.0	3.9	3.1	2.8	3.8	1.8	2.9	3.0				
Pb	0.083	0.0415											
Sr	0.53	0.265											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 26533I4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: 200X
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All Soil
Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	2	3	5	7	8	10			
Sb			0.38	0.38	0.093	0.15	0.17	0.29	0.25	0.24	0.19			
Be			0.057	0.057										

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE220
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6371367BKG Matrix Spike Lab Sample ID: 6371368MS Matrix Spike Duplicate Lab Sample ID: 6371369MSD
% Solids for Sample: 90.2
Batch Id(s): P22408B, P22426A, P22211D

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		16645.2477		21213.5244		21871.1389		221.7295	219.5341	MG/KG	2060		2380		3			20	P
Antimony	121	0.2356		0.8150		0.9745		1.2916	1.3172	MG/KG	45	N	56	N	18		75 - 125	20	MS
Arsenic	75	5.3322		6.8542		7.1151		2.1527	2.1953	MG/KG	71	N	81		4		75 - 125	20	MS
Barium	137	96.4097		84.1065		85.3549		10.7636	10.9767	MG/KG	-114		-101		1			20	MS
Beryllium	9	0.6967		1.4309		1.4753		0.8611	0.8781	MG/KG	85		89		3		75 - 125	20	MS
Boron		2.9070	B	222.8038		221.0994		221.7295	219.5341	MG/KG	99		99		1		84 - 115	20	P
Cadmium	111	0.1116		1.1635		1.2783		1.0764	1.0977	MG/KG	98		106		9		75 - 125	20	MS
Calcium		2501.0745		2935.3980		2897.5566		443.4590	439.0683	MG/KG	98		90		1			20	P
Chromium	52	15.5850		26.4138		28.5394		10.7636	10.9767	MG/KG	101		118		8		75 - 125	20	MS
Cobalt	59	11.9478		57.4990		63.4673		53.8178	54.8835	MG/KG	85		94		10		75 - 125	20	MS
Copper	63	8.7285		18.7523		20.2718		10.7636	10.9767	MG/KG	93		105		8		75 - 125	20	MS
Iron		18676.3890		19371.6297		20872.4177		110.8647	109.7671	MG/KG	627		2001		7			20	P
Lead	208	7.9439		8.0834		9.0448		3.2291	3.2930	MG/KG	4	N	33	N	11		75 - 125	20	MS
Lithium		17.7106		130.5177		130.2562		110.8647	109.7671	MG/KG	102		103		0		82 - 114	20	P
Magnesium		3272.6388		3811.5344		3876.4440		221.7295	219.5341	MG/KG	243		275		2			20	P
Manganese		137.2186		226.4457		305.4049		55.4324	54.8835	MG/KG	161	N	306	N	30	*	75 - 125	20	P
Mercury		0.0232	B	0.1992		0.1927		0.1732	0.1768	MG/KG	102		96		3		65 - 135	20	CV
Molybdenum	98	0.6025		10.9422		12.2281		10.7636	10.9767	MG/KG	96		106		11		75 - 125	20	MS
Nickel	60	12.9925		20.7070		22.4583		10.7636	10.9767	MG/KG	72	N	86		8		75 - 125	20	MS
Phosphorus		177.8708		317.7506		325.7448		110.8647	109.7671	MG/KG	126	N	135	N	2		75 - 125	20	P
Potassium		2188.3656		3560.4113		3585.9026		1108.6475	1097.6707	MG/KG	124		127	N	1		75 - 125	20	P
Selenium	78	0.0618	U	2.0955		2.8056		2.1527	2.1953	MG/KG	97		128	N	29	*	75 - 125	20	MS
Silver	107	0.0481	B	10.7184		11.8614		10.7636	10.9767	MG/KG	99		108		10		75 - 125	20	MS
Sodium		95.4364	B	1159.8869		1160.3982		1108.6475	1097.6707	MG/KG	96		97		0		75 - 125	20	P
Strontium		16.9559		129.4867		129.6986		110.8647	109.7671	MG/KG	102		103		0		75 - 115	20	P
Thallium	203	0.2354		0.6906		0.7240		0.4305	0.4391	MG/KG	106		111		5		75 - 125	20	MS
Tin		2.6469	B	406.2805		401.4511		443.4590	439.0683	MG/KG	91		91		1		80 - 110	20	P
Titanium		978.9144		1329.8215		1294.4140		110.8647	109.7671	MG/KG	317		287		3			20	P
Vanadium	51	34.4534		42.9036		45.7290		10.7636	10.9767	MG/KG	79		103		6		75 - 125	20	MS
Zinc	66	38.6747		46.3049		49.9440		10.7636	10.9767	MG/KG	71	N	103		8		75 - 125	20	MS
Zirconium		3.0509	B	113.1009		112.1161		110.8647	109.7671	MG/KG	99		99		1		75 - 125	20	P

Pb post spike = 69% (O/R)

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE220
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6371367BKG
% Solids for Duplicate: 90.0
Batch ID(s): P22408B, P22426A, P22211D
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6371370DUP
% Solids for Sample: 90.2

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			16645.2477		16920.8947		2		P
Antimony	121	0.2	0.2356		0.2068	B	13		MS
Arsenic	75		5.3322		6.4745		19		MS
Barium	137		96.4097		97.2727		1		MS
Beryllium	9		0.6967		0.7381		6		MS
Boron			2.9070	B	2.8836	B	1		P
Cadmium	111	0.1	0.1116		0.0717	B	44		MS
Calcium			2501.0745		2257.8304		10		P
Chromium	52		15.5850		22.1042		35	*	MS
Cobalt	59		11.9478		6.1375		64	*	MS
Copper	63		8.7285		10.9889		23	*	MS
Iron			18676.3890		17822.6264		5		P
Lead	208		7.9439		7.2882		9		MS
Lithium			17.7106		17.7118		0		P
Magnesium			3272.6388		3272.3104		0		P
Manganese			137.2186		161.8326		16		P
Mercury			0.0232	B	0.0139	B	50		CV
Molybdenum	98	0.1	0.6025		0.4876		21		MS
Nickel	60		12.9925		13.9246		7		MS
Phosphorus			177.8708		190.0100		7		P
Potassium			2188.3656		2163.4756		1		P
Selenium	78		0.0618	U	0.0643	U			MS
Silver	107		0.0481	B	0.0529	B	10		MS
Sodium			95.4364	B	94.8149	B	1		P
Strontium			16.9559		16.7971		1		P
Thallium	203	0.1	0.2354		0.2976		23		MS
Tin			2.6469	B	2.4224	B	9		P
Titanium			978.9144		993.6153		1		P
Vanadium	51		34.4534		43.4590		23	*	MS
Zinc	66		38.6747		48.8470		23	*	MS
Zirconium			3.0509	B	3.5410	B	15		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

SAMPLE DELIVERY GROUP

DE221

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3050B	6010B	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3050B	6020	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3060A	7199	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8082	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8270C	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8270C SIM	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	300.0	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	7471A	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3050B	6010B	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3050B	6020	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3060A	7199	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8082	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8270C	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8270C SIM	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	300.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	7471A	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0DUP	P372837D270303B	DUP	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0MS	P372837R270350B	MS	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3050B	6010B	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3050B	6020	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3060A	7199	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8082	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8270C	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	300.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	6850	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	7471A	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0DUP	P372830D272204A	DUP	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0MS	P372830R272227A	MS	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3050B	6010B	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3050B	6020	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3060A	7199	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8082	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8270C	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8270C SIM	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	300.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	7471A	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3050B	6010B	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3050B	6020	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3060A	7199	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8082	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8270C	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8270C SIM	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	300.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	314.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	7471A	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0DU	P372826D270011A	DUP	METHOD	300.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0MS	P372826R260049	MS	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0MS	P372826R270025A	MS	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3050B	6010B	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3050B	6020	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3060A	7199	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8082	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8270C	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8270C SIM	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	314.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	7471A	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3050B	6010B	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3050B	6020	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3060A	7199	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8082	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8270C	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8270C SIM	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	314.0	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	7471A	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3050B	6010B	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3050B	6020	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3060A	7199	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8082	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8270C	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8270C SIM	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	300.0	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	314.0	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	6850	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	7471A	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0MS	P372827R241713A	MS	METHOD	6850	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3050B	6010B	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3050B	6020	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3060A	7199	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8082	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8270C	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8270C SIM	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	300.0	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	314.0	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	7471A	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3050B	6010B	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3050B	6020	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3060A	7199	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8082	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8270C	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8270C SIM	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	300.0	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	314.0	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	7471A	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3050B	6010B	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3050B	6020	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3060A	7199	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8082	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8270C	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8270C SIM	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	300.0	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	314.0	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	7471A	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3050B	6010B	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3050B	6020	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3060A	7199	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8082	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8270C	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8270C SIM	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	300.0	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	314.0	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: **SL-007-SA5DN-SB-4.0-5.0** ***Collected:*** **8/10/2011 9:20:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: **SL-071-SA5DN-SB-4.0-5.0** ***Collected:*** **8/10/2011 11:19:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	10.9		0.94	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: **SL-071-SA5DN-SB-9.0-10.0** ***Collected:*** **8/10/2011 11:57:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.5		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-072-SA5DN-SB-4.0-5.0** ***Collected:*** **8/10/2011 2:35:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.97	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: **SL-151-SA6-SB-4.0-5.0** ***Collected:*** **8/10/2011 8:59:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-151-SA6-SB-9.0-10.0** ***Collected:*** **8/10/2011 9:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.91	U	0.91	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: **SL-182-SA6-SB-4.0-5.0** ***Collected:*** **8/10/2011 12:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: **SL-182-SA6-SB-9.0-10.0** ***Collected:*** **8/10/2011 12:49:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1	J	0.91	MDL	1.1	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-183-SA6-SB-4.0-5.0 *Collected:* 8/10/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-007-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.04	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	3.90	J	0.527	MDL	5.73	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 11:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.94	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.77	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5DN-SB-9.0-10.0 *Collected:* 8/10/2011 11:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.45	J	0.406	MDL	5.64	PQL	mg/Kg	J	Z
TIN	2.94	J	0.361	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.08	J	0.519	MDL	5.64	PQL	mg/Kg	U	B

Sample ID: SL-072-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.16	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.03	J	0.526	MDL	5.72	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-151-SA6-SB-4.0-5.0 **Collected:** 8/10/2011 8:59:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.80	J	0.376	MDL	5.23	PQL	mg/Kg	J	Z
SODIUM	82.2	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	2.50	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.43	J	0.481	MDL	5.23	PQL	mg/Kg	U	B

Sample ID: SL-151-SA6-SB-9.0-10.0 **Collected:** 8/10/2011 9:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.64	J	0.396	MDL	5.50	PQL	mg/Kg	J	Z
TIN	3.18	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.59	J	0.506	MDL	5.50	PQL	mg/Kg	U	B

Sample ID: SL-182-SA6-SB-4.0-5.0 **Collected:** 8/10/2011 12:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.02	J	0.371	MDL	5.15	PQL	mg/Kg	J	Z
SODIUM	91.3	J	6.13	MDL	103	PQL	mg/Kg	J	Z
TIN	2.69	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.42	J	0.474	MDL	5.15	PQL	mg/Kg	U	B

Sample ID: SL-182-SA6-SB-9.0-10.0 **Collected:** 8/10/2011 12:49:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.12	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
TIN	3.00	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.510	MDL	5.54	PQL	mg/Kg	U	B

Sample ID: SL-183-SA6-SB-4.0-5.0 **Collected:** 8/10/2011 10:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.71	J	0.392	MDL	5.45	PQL	mg/Kg	J	Z
TIN	2.93	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.29	J	0.501	MDL	5.45	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-183-SA6-SB-9.0-10.0 ***Collected:*** 8/10/2011 10:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.09	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
TIN	3.05	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.23	J	0.509	MDL	5.53	PQL	mg/Kg	U	B

Sample ID: SL-185-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 7:49:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
SODIUM	104	J	6.42	MDL	108	PQL	mg/Kg	J	Z
TIN	2.90	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.37	J	0.496	MDL	5.39	PQL	mg/Kg	U	B

Sample ID: SL-185-SA6-SB-9.0-10.0 ***Collected:*** 8/10/2011 7:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.85	J	0.401	MDL	5.57	PQL	mg/Kg	J	Z
SODIUM	96.8	J	6.63	MDL	111	PQL	mg/Kg	J	Z
TIN	3.03	J	0.357	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.02	J	0.513	MDL	5.57	PQL	mg/Kg	U	B

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-007-SA5DN-SB-4.0-5.0 ***Collected:*** 8/10/2011 9:20:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0780	J	0.0659	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5DN-SB-4.0-5.0 ***Collected:*** 8/10/2011 9:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q
SILVER	0.0561	J	0.0161	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	64.6		0.0250	MDL	0.114	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory:** LL

EDD Filename: DE221_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-071-SA5DN-SB-4.0-5.0 ***Collected:*** 8/10/2011 11:19:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0844	MDL	0.228	PQL	mg/Kg	J	Z, Q
SILVER	0.0714	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	61.1		0.0251	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5DN-SB-9.0-10.0 ***Collected:*** 8/10/2011 11:57:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0835	MDL	0.226	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0623	J	0.0496	MDL	0.113	PQL	mg/Kg	J	Z
SILVER	0.0549	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	43.5		0.0248	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5DN-SB-4.0-5.0 ***Collected:*** 8/10/2011 2:35:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0880	U	0.0880	MDL	0.238	PQL	mg/Kg	UJ	Q
SILVER	0.0708	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	54.9		0.0262	MDL	0.119	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 8:59:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	U	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q
SILVER	0.0378	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	38.7		0.0230	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-9.0-10.0 ***Collected:*** 8/10/2011 9:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0903	J	0.0813	MDL	0.220	PQL	mg/Kg	J	Z, Q
SILVER	0.0400	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	42.4		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory:** LL

EDD Filename: DE221_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-182-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 12:45:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0631	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 12:45:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0793	U	0.0793	MDL	0.214	PQL	mg/Kg	UJ	Q
CADMIUM	0.0585	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
SILVER	0.0468	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	36.9		0.0236	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA6-SB-9.0-10.0 ***Collected:*** 8/10/2011 12:49:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0788	J	0.0649	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SB-9.0-10.0 ***Collected:*** 8/10/2011 12:49:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0828	U	0.0828	MDL	0.224	PQL	mg/Kg	UJ	Q
SILVER	0.0581	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	43.4		0.0246	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 10:25:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0727	J	0.0638	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-4.0-5.0 ***Collected:*** 8/10/2011 10:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0814	U	0.0814	MDL	0.220	PQL	mg/Kg	UJ	Q
CADMIUM	0.0845	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
SILVER	0.0610	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	44.4		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-183-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 10:30:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0693	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 10:30:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0811	U	0.0811	MDL	0.219	PQL	mg/Kg	UJ	Q
SILVER	0.0337	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	39.2		0.0241	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-185-SA6-SB-4.0-5.0 *Collected:* 8/10/2011 7:49:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0806	U	0.0806	MDL	0.218	PQL	mg/Kg	UJ	Q
CADMIUM	0.0714	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z
SILVER	0.0707	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	43.3		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-185-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 7:50:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0825	U	0.0825	MDL	0.223	PQL	mg/Kg	UJ	Q
SILVER	0.0326	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	37.5		0.0245	MDL	0.111	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-007-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-071-SA5DN-SB-9.0-10.0 **Collected: 8/10/2011 11:57:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.0	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-151-SA6-SB-4.0-5.0 **Collected: 8/10/2011 8:59:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-4.0-5.0 **Collected: 8/10/2011 10:25:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-9.0-10.0 **Collected: 8/10/2011 10:30:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-071-SA5DN-SB-4.0-5.0 **Collected: 8/10/2011 11:19:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0091	J	0.0082	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5DN-SB-4.0-5.0 **Collected: 8/10/2011 2:35:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0091	J	0.0083	MDL	0.118	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-007-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 9:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.8	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
AROCLOR 1260	0.72	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 2:35:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.9	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z, S
AROCLOR 1260	1.0	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z, S

Sample ID: SL-185-SA6-SB-9.0-10.0 *Collected:* 8/10/2011 7:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.63	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-071-SA5DN-SB-4.0-5.0 *Collected:* 8/10/2011 11:19:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.55	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.90	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	1.1	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE221

Method Blank Outlier Report

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **6010B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408DB221719	8/17/2011 5:19:00 PM	CALCIUM	7.06 mg/Kg	SL-007-SA5DN-SB-4.0-5.0
		IRON	3.13 mg/Kg	SL-071-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.34 mg/Kg	SL-071-SA5DN-SB-9.0-10.0
		STRONTIUM	0.0390 mg/Kg	SL-072-SA5DN-SB-4.0-5.0
		TIN	1.93 mg/Kg	SL-151-SA6-SB-4.0-5.0
				SL-151-SA6-SB-9.0-10.0
				SL-182-SA6-SB-4.0-5.0
				SL-182-SA6-SB-9.0-10.0
				SL-183-SA6-SB-4.0-5.0
				SL-183-SA6-SB-9.0-10.0
				SL-185-SA6-SB-4.0-5.0
				SL-185-SA6-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-007-SA5DN-SB-4.0-5.0(RES)	TIN	3.04 mg/Kg	3.04U mg/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-151-SA6-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-151-SA6-SB-9.0-10.0(RES)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-182-SA6-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-182-SA6-SB-9.0-10.0(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-183-SA6-SB-4.0-5.0(RES)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-183-SA6-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-185-SA6-SB-4.0-5.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-185-SA6-SB-9.0-10.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6850
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5DN-SB-4.0-5.0MSD (SL-071-SA5DN-SB-4.0-5.0)	PERCHLORATE	-	123	80.00-120.00	-	PERCHLORATE	J (all detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-007-SA5DN-SB-4.0-5.0MS (SL-007-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0 SL-072-SA5DN-SB-4.0-5.0 SL-151-SA6-SB-4.0-5.0 SL-151-SA6-SB-9.0-10.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0)	FLUORIDE	58	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	*Analyte*	*Sample RPD*	*eQAPP RPD*	*Flag*
SL-007-SA5DN-SB-4.0-5.0DUP (SL-007-SA5DN-SB-4.0-5.0 SL -071-SA5DN-SB-4.0-5.0 SL -071-SA5DN-SB-9.0-10.0 SL -072-SA5DN-SB-4.0-5.0 SL -151-SA6-SB-4.0-5.0 SL -151-SA6-SB-9.0-10.0 SL -182-SA6-SB-4.0-5.0 SL -182-SA6-SB-9.0-10.0 SL -183-SA6-SB-4.0-5.0 SL -183-SA6-SB-9.0-10.0)	FLUORIDE	29	20.00	No Qual, OK by Difference

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12341AY241914A (SL-007-SA5DN -SB-4.0-5.0 SL -071-SA5DN -SB-4.0-5.0 SL -071-SA5DN -SB-9.0-10.0 SL -072-SA5DN -SB-4.0-5.0 SL -151-SA6-SB-4.0-5.0 SL -151-SA6-SB-9.0-10.0 SL -182-SA6-SB-4.0-5.0 SL -182-SA6-SB-9.0-10.0 SL -183-SA6-SB-4.0-5.0 SL -183-SA6-SB-9.0-10.0 SL -185-SA6-SB-4.0-5.0 SL -185-SA6-SB-9.0-10.0)	Aroclor 5442	-	114	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408DQ221723	ALUMINUM	141	-	80.00-120.00	-	ALUMINUM	
(SL-007-SA5DN -SB-4.0-5.0	IRON	136	-	80.00-120.00	-	IRON	
SL -071-SA5DN -SB-4.0-5.0	TITANIUM	180	-	80.00-120.00	-	TITANIUM	
SL -071-SA5DN -SB-9.0-10.0 SL -072-SA5DN -SB-4.0-5.0 SL -151-SA6-SB-4.0-5.0 SL -151-SA6-SB-9.0-10.0 SL -182-SA6-SB-4.0-5.0 SL -182-SA6-SB-9.0-10.0 SL -183-SA6-SB-4.0-5.0 SL -183-SA6-SB-9.0-10.0 SL -185-SA6-SB-4.0-5.0 SL -185-SA6-SB-9.0-10.0)							No Qual, SRM within QC Limits

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Surrogate Outlier Report

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-072-SA5DN-SB-4.0-5.0	TETRACHLORO-M-XYLENE	173	53.00-139.00	All Target Analytes	J (all detects)
SL-151-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	156 167	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-182-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	129 140	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-183-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)
SL-185-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL TETRACHLORO-M-XYLENE	169 155	45.00-120.00 53.00-139.00	All Target Analytes	J(all detects)
SL-185-SA6-SB-9.0-10.0	DECACHLOROBIPHENYL	145	45.00-120.00	All Target Analytes	J(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	TIN	J	3.04	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.90	5.73	PQL	mg/Kg	
SL-071-SA5DN-SB-4.0-5.0	TIN	J	2.94	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.77	5.70	PQL	mg/Kg	
SL-071-SA5DN-SB-9.0-10.0	BORON	J	5.45	5.64	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	11.3	PQL	mg/Kg	
	Zirconium	J	3.08	5.64	PQL	mg/Kg	
SL-072-SA5DN-SB-4.0-5.0	TIN	J	3.16	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.03	5.72	PQL	mg/Kg	
SL-151-SA6-SB-4.0-5.0	BORON	J	4.80	5.23	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.2	105	PQL	mg/Kg	
	TIN	J	2.50	10.5	PQL	mg/Kg	
	Zirconium	J	2.43	5.23	PQL	mg/Kg	
SL-151-SA6-SB-9.0-10.0	BORON	J	3.64	5.50	PQL	mg/Kg	J (all detects)
	TIN	J	3.18	11.0	PQL	mg/Kg	
	Zirconium	J	2.59	5.50	PQL	mg/Kg	
SL-182-SA6-SB-4.0-5.0	BORON	J	4.02	5.15	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.3	103	PQL	mg/Kg	
	TIN	J	2.69	10.3	PQL	mg/Kg	
	Zirconium	J	2.42	5.15	PQL	mg/Kg	
SL-182-SA6-SB-9.0-10.0	BORON	J	4.12	5.54	PQL	mg/Kg	J (all detects)
	TIN	J	3.00	11.1	PQL	mg/Kg	
	Zirconium	J	2.54	5.54	PQL	mg/Kg	
SL-183-SA6-SB-4.0-5.0	BORON	J	4.71	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.93	10.9	PQL	mg/Kg	
	Zirconium	J	2.29	5.45	PQL	mg/Kg	
SL-183-SA6-SB-9.0-10.0	BORON	J	4.09	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	11.1	PQL	mg/Kg	
	Zirconium	J	2.23	5.53	PQL	mg/Kg	
SL-185-SA6-SB-4.0-5.0	BORON	J	4.55	5.39	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	108	PQL	mg/Kg	
	TIN	J	2.90	10.8	PQL	mg/Kg	
	Zirconium	J	2.37	5.39	PQL	mg/Kg	
SL-185-SA6-SB-9.0-10.0	BORON	J	3.85	5.57	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.8	111	PQL	mg/Kg	
	TIN	J	3.03	11.1	PQL	mg/Kg	
	Zirconium	J	2.02	5.57	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.156	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0780	0.454	PQL	mg/Kg	
	SILVER	J	0.0561	0.114	PQL	mg/Kg	
SL-071-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.109	0.228	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0714	0.114	PQL	mg/Kg	
SL-071-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.110	0.226	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0623	0.113	PQL	mg/Kg	
	SILVER	J	0.0549	0.113	PQL	mg/Kg	
SL-072-SA5DN-SB-4.0-5.0	SILVER	J	0.0708	0.119	PQL	mg/Kg	J (all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-151-SA6-SB-4.0-5.0	SILVER	J	0.0378	0.105	PQL	mg/Kg	J (all detects)
SL-151-SA6-SB-9.0-10.0	ANTIMONY	J	0.0903	0.220	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0400	0.110	PQL	mg/Kg	
SL-182-SA6-SB-4.0-5.0	CADMIUM	J	0.0585	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0631	0.429	PQL	mg/Kg	
	SILVER	J	0.0468	0.107	PQL	mg/Kg	
SL-182-SA6-SB-9.0-10.0	SELENIUM	J	0.0788	0.448	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0581	0.112	PQL	mg/Kg	
SL-183-SA6-SB-4.0-5.0	CADMIUM	J	0.0845	0.110	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0727	0.440	PQL	mg/Kg	
	SILVER	J	0.0610	0.110	PQL	mg/Kg	
SL-183-SA6-SB-9.0-10.0	SELENIUM	J	0.0693	0.438	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0337	0.110	PQL	mg/Kg	
SL-185-SA6-SB-4.0-5.0	CADMIUM	J	0.0714	0.109	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0707	0.109	PQL	mg/Kg	
SL-185-SA6-SB-9.0-10.0	SILVER	J	0.0326	0.111	PQL	mg/Kg	J (all detects)

Method: 7199
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.69	1.2	PQL	mg/Kg	J (all detects)
SL-071-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	1.0	1.2	PQL	mg/Kg	J (all detects)
SL-151-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-183-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-183-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-071-SA5DN-SB-4.0-5.0	MERCURY	J	0.0091	0.116	PQL	mg/Kg	J (all detects)
SL-072-SA5DN-SB-4.0-5.0	MERCURY	J	0.0091	0.118	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	1.8	2.0	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.72	2.0	PQL	ug/Kg	
SL-072-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	1.9	2.0	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.0	2.0	PQL	ug/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE221 **Laboratory: LL**

EDD Filename: DE221_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA6-SB-9.0-10.0	AROCLOR 1254	J	0.63	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-071-SA5DN-SB-4.0-5.0	ACENAPHTHYLENE	J	0.55	1.9	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	0.90	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
	FLUORENE	J	1.1	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	

LDC #: 26533J4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE221 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	NSW	see DZ-mw
VII.	Duplicate Sample Analysis	NA	
VIII.	Laboratory Control Samples (LCS)	NA	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	—	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: Soil

1	SL-007-SA5DN-SB-4.0-5.0	11	SL-185-SA6-SB-4.0-5.0	21		31	
2	SL-071-SA5DN-SB-4.0-5.0	12	SL-185-SA6-SB-9.0-10.0	22		32	
3	SL-071-SA5DN-SB-9.0-10.0	13		23		33	
4	SL-072-SA5DN-SB-4.0-5.0	14		24		34	
5	SL-151-SA6-SB-4.0-5.0	15		25		35	
6	SL-151-SA6-SB-9.0-10.0	16		26		36	
7	SL-182-SA6-SB-4.0-5.0	17		27		37	
8	SL-182-SA6-SB-9.0-10.0	18		28		38	
9	SL-183-SA6-SB-4.0-5.0	19		29		39	
10	SL-183-SA6-SB-9.0-10.0	20		30		40	

Notes:

LDC #: 26533K4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000) Soil preparation factor applied: ICP:100X, ICP/MS: 200X
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: All Soil Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	3	5	6	7	8	9	10	11	12	
Zr			6.7	3.35	3.1	2.4	2.6	2.4	2.5	2.3	2.2	2.4	2.0	

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

SAMPLE DELIVERY GROUP

DE222

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	TB-081111	6374017	TB	5030B	8015M	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3050B	6010B	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3050B	6020	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3060A	7199	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8082	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8270C	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8270C SIM	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	300.0	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	314.0	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	7471A	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3050B	6010B	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3050B	6020	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3060A	7199	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8082	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8270C	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8270C SIM	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	300.0	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	314.0	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	6850	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8270C SIM	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8270C SIM	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	7471A	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3050B	6010B	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3050B	6020	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3060A	7199	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8082	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8270C	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8270C SIM	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	300.0	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	314.0	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	7471A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3050B	6010B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3050B	6020	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3060A	7199	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3546	1625C	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8015B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8082	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8270C	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8270C SIM	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	5035	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	8330	8330A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	300.0	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	314.0	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	7471A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8015B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8315A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	9012B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0MS	P374009R241837A	MS	METHOD	8315A	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0MS	P374009R262226	MS	3546	1625C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3005A	6010B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3020A	6020	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8015B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8082	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8270C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8270C SIM	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3520C	1625C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8260B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8260B SIM	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	8330	8330A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	300.0	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	314.0	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	7199	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	8015B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	7470A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	8315A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	9012B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3050B	6010B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3050B	6020	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3060A	7199	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8015M	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8082	III

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IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8270C	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8270C SIM	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	5035	8015M	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	300.0	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	314.0	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	7471A	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	8015B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	8015M	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3050B	6010B	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3050B	6020	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3060A	7199	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8082	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8270C	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8270C SIM	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	300.0	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	314.0	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	6850	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 300.0 **Matrix:** SO

Sample ID: DUP24-SA6-QC-081111 *Collected:* 8/11/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	15.8		0.92	MDL	1.2	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-9.0-10.0 *Collected:* 8/11/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.84	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.88	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.84	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA6-SB-2.0-3.0 *Collected:* 8/11/2011 2:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.85	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-207-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	24.4		0.93	MDL	1.2	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM **Method:** 314.0 **Matrix:** AQ

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	0.70	U	0.70	MDL	2.0	PQL	ug/L	UJ	L

Method Category: METALS **Method:** 6010B **Matrix:** AQ

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* REA2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0055	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

Method Category: METALS **Method:** 6010B **Matrix:** SO

Sample ID: DUP24-SA6-QC-081111 *Collected:* 8/11/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.96	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z
SODIUM	87.4	J	6.26	MDL	105	PQL	mg/Kg	J	Z
TIN	2.81	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.484	MDL	5.26	PQL	mg/Kg	UJ	FD, B

Sample ID: SL-006-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.14	J	0.362	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.31	J	0.520	MDL	5.65	PQL	mg/Kg	U	B

Sample ID: SL-006-SA5DN-SB-9.0-10.0 *Collected:* 8/11/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.03	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.59	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.23	J	0.366	MDL	5.09	PQL	mg/Kg	J	Z
SODIUM	68.4	J	6.05	MDL	102	PQL	mg/Kg	J	Z
TIN	2.68	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.62	J	0.468	MDL	5.09	PQL	mg/Kg	U	B

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.32	J	0.378	MDL	5.24	PQL	mg/Kg	J	Z
SODIUM	86.9	J	6.24	MDL	105	PQL	mg/Kg	J	Z
TIN	2.78	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	4.48	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z, FD

Sample ID: SL-174-SA6-SB-2.0-3.0 *Collected:* 8/11/2011 2:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.30	J	0.371	MDL	5.16	PQL	mg/Kg	J	Z
TIN	2.81	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.34	J	0.474	MDL	5.16	PQL	mg/Kg	U	B

Sample ID: SL-207-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.07	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.18	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** AQ

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* REA4 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00011	J	0.000080	MDL	0.0010	PQL	mg/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: DUP24-SA6-QC-081111 ***Collected:*** 8/11/2011 10:15:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: DUP24-SA6-QC-081111 ***Collected:*** 8/11/2011 10:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q, FD
CADMIUM	0.0459	U	0.0459	MDL	0.104	PQL	mg/Kg	UJ	FD
SILVER	0.0421	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	37.2		0.0229	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-4.0-5.0 ***Collected:*** 8/11/2011 8:20:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0836	MDL	0.226	PQL	mg/Kg	J	Z, Q
CADMIUM	0.107	J	0.0497	MDL	0.113	PQL	mg/Kg	J	Z
SILVER	0.0487	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	55.4		0.0249	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-006-SA5DN-SB-9.0-10.0 ***Collected:*** 8/11/2011 9:10:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0815	U	0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q
CADMIUM	0.0976	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
SILVER	0.0241	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.2		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-033-SA6-SB-2.5-3.5 ***Collected:*** 8/11/2011 2:40:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5 ***Collected:*** 8/11/2011 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0745	U	0.0745	MDL	0.201	PQL	mg/Kg	UJ	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-033-SA6-SB-2.5-3.5 **Collected:** 8/11/2011 2:40:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0383	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	31.0		0.0222	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA6-SB-4.0-5.0 **Collected:** 8/11/2011 10:09:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0608	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 **Collected:** 8/11/2011 10:09:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.129	J	0.0776	MDL	0.210	PQL	mg/Kg	J	Z, Q, FD
CADMIUM	0.0475	J	0.0461	MDL	0.105	PQL	mg/Kg	J	Z, FD
SILVER	0.0466	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	36.1		0.0231	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA6-SB-2.0-3.0 **Collected:** 8/11/2011 2:46:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA6-SB-2.0-3.0 **Collected:** 8/11/2011 2:46:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0849	J	0.0771	MDL	0.208	PQL	mg/Kg	J	Z, Q
SILVER	0.0241	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	40.1		0.0229	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-207-SA5DN-SB-4.0-5.0 **Collected:** 8/11/2011 10:55:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0845	MDL	0.228	PQL	mg/Kg	J	Z, Q
SILVER	0.0366	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	71.1		0.0251	MDL	0.114	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS
Method: 7199 **Matrix:** SO

Sample ID: DUP24-SA6-QC-081111 *Collected:* 8/11/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.78	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA6-SB-2.0-3.0 *Collected:* 8/11/2011 2:46:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Method Category: METALS
Method: 7471A **Matrix:** SO

Sample ID: SL-006-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 8:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Method Category: SVOA
Method: 1625C **Matrix:** AQ

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.88		0.507	MDL	1.01	PQL	ng/L	UJ	B, S

Method Category: SVOA
Method: 8015M **Matrix:** SO

Sample ID: SL-207-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 10:55:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.70	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory:** LL

EDD Filename: DE222_v2 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA
Method: 8015M **Matrix:** SO

Method Category: SVOA
Method: 8082 **Matrix:** SO

Sample ID: DUP24-SA6-QC-081111 *Collected:* 8/11/2011 10:15:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-006-SA5DN-SB-4.0-5.0 *Collected:* 8/11/2011 8:20:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.57	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.45	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.93	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD

Method Category: SVOA
Method: 8270C **Matrix:** AQ

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	3	U	3	MDL	10	PQL	ug/L	R	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C **Matrix: SO**

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHTHALATE	63	J	18	MDL	350	PQL	ug/Kg	J	Z
Di-n-octylphthalate	49	J	18	MDL	180	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
2-METHYLNAPHTHALENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ACENAPHTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ACENAPHTHYLENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(A)ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
BENZO(A)PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(B)FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(G,H,I)PERYLENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(K)FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BIS(2-ETHYLHEXYL)PHTHALATE	0.054	U	0.054	MDL	1.1	PQL	ug/L	UJ	E
Butylbenzylphthalate	0.14	J	0.054	MDL	1.1	PQL	ug/L	J	Z, E
CHRYSENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
DIBENZO(A,H)ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
Diethylphthalate	0.13	J	0.054	MDL	1.1	PQL	ug/L	J	Z, E
Dimethylphthalate	0.054	U	0.054	MDL	1.1	PQL	ug/L	UJ	E
Di-n-butylphthalate	0.71	J	0.054	MDL	1.1	PQL	ug/L	J	Z, L, E
FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
FLUORENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8270C SIM **Matrix: AQ**

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
NAPHTHALENE	0.097		0.032	MDL	0.054	PQL	ug/L	J	L, E
N-NITROSODIMETHYLAMINE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
PHENANTHRENE	0.032	U	0.032	MDL	0.054	PQL	ug/L	UJ	L, E
PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E

Method Category: SVOA

Method: 8270C SIM **Matrix: SO**

Sample ID: SL-006-SA5DN-SB-9.0-10.0 *Collected:* 8/11/2011 9:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5 *Collected:* 8/11/2011 2:40:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.87	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.99	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.85	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 *Collected:* 8/11/2011 10:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	Q

Method Category: SVOA

Method: 8330A **Matrix: AQ**

Sample ID: EB-SA5DN-SB-081111 *Collected:* 8/11/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-AMINO-2,6-DINITROTOLUENE	0.41	J	0.30	MDL	0.60	PQL	ug/L	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE222

Method Blank Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE22B261554	8/16/2011 3:54:00 PM	N-NITROSODIMETHYLAMINE	1.64 ng/L	EB-SA5DN-SB-081111

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DN-SB-081111(RES)	N-NITROSODIMETHYLAMINE	3.88 ng/L	3.88U ng/L

Method: 6010B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23048AB221844	8/19/2011 6:44:00 PM	BORON	0.0025 mg/L	EB-SA5DN-SB-081111

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DN-SB-081111(REA2)	BORON	0.0055 mg/L	0.0055U mg/L

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408DB221719	8/17/2011 5:19:00 PM	CALCIUM	7.06 mg/Kg	DUP24-SA6-QC-081111
		IRON	3.13 mg/Kg	SL-006-SA5DN-SB-4.0-5.0
		PHOSPHORUS	1.34 mg/Kg	SL-006-SA5DN-SB-9.0-10.0
		STRONTIUM	0.0390 mg/Kg	SL-033-SA6-SB-2.5-3.5
		TIN	1.93 mg/Kg	SL-155-SA6-SB-4.0-5.0
				SL-174-SA6-SB-2.0-3.0
				SL-207-SA5DN-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP24-SA6-QC-081111(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	TIN	3.14 mg/Kg	3.14U mg/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg
SL-033-SA6-SB-2.5-3.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-155-SA6-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-174-SA6-SB-2.0-3.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: **8270C SIM**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLE23B260610	8/31/2011 6:10:00 AM	ANTHRACENE FLUORENE	0.65 ug/Kg 0.97 ug/Kg	DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	VANADIUM	136	-	75.00-125.00	-	VANADIUM	J (all detects)
SL-155-SA6-SB-4.0-5.0MS **SL-155-SA6-SB-4.0-5.0MSD** (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ANTIMONY	28	30	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects) post spike = 76%
SL-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	BARIUM	171	-	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MS	ALUMINUM	1728	1453	75.00-125.00	-	ALUMINUM	
SL-155-SA6-SB-4.0-5.0MSD	CALCIUM	128	143	75.00-125.00	-	CALCIUM	
(DUP24-SA6-QC-081111	IRON	170	873	75.00-125.00	-	IRON	
SL-006-SA5DN-SB-4.0-5.0	MAGNESIUM	-	206	75.00-125.00	-	MAGNESIUM	
SL-006-SA5DN-SB-9.0-10.0	TITANIUM	216	240	75.00-125.00	-	TITANIUM	No Qual, >4x
SL-033-SA6-SB-2.5-3.5							
SL-155-SA6-SB-4.0-5.0							
SL-174-SA6-SB-2.0-3.0							
SL-207-SA5DN-SB-4.0-5.0)							

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MSD	3,3'-DICHLOROBENZIDINE	-	-	28.00-109.00	33 (30.00)	3,3'-DICHLOROBENZIDINE	J(all detects)
(SL-155-SA6-SB-4.0-5.0)	4-CHLOROANILINE	-	-	13.00-107.00	40 (30.00)	4-CHLOROANILINE	
SL-155-SA6-SB-4.0-5.0MS **SL-155-SA6-SB-4.0-5.0MSD** (SL-155-SA6-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MSD (SL-155-SA6-SB-4.0-5.0)	1-METHYLNAPHTHALENE	-	71	72.00-123.00	-	1-METHYLNAPHTHALENE	J(all detects) UJ(all non-detects)

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	FLUORIDE	25	-	80.00-120.00	-	FLUORIDE	J(all detects) R(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-155-SA6-SB-4.0-5.0DUP (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	Zirconium	42	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-155-SA6-SB-4.0-5.0DUP (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ANTIMONY	44	20.00	No Qual, OK by Difference

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 8330A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12273AQ240057A P12273AY240139A (EB-SA5DN -SB-081111)	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	110 110 138	- 110 138	76.00-109.00 69.00-107.00 80.00-120.00	- - -	2,4,6-TRINITROTOLUENE 3-NITROTOLUENE PETN	J (all detects)

Method: 314.0
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
Q11228Y270654A (EB-SA5DN -SB-081111)	PERCHLORATE	-	-	85.00-115.00	20 (15.00)	PERCHLORATE	J(all detects) UJ(all non-detects)

Method: 8270C
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WFLCSQ260954 P8WFLCSY261019 (EB-SA5DN -SB-081111)	3,5-Dimethylphenol	1	1	70.00-130.00	-	3,5-Dimethylphenol	J(all detects) R(all non-detects)
P8WFLCSY261019 (EB-SA5DN -SB-081111)	BENZOIC ACID	-	-	10.00-69.00	34 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

Method: 8270C SIM
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P9WALCSQ260622 P9WALCSY260654 (EB-SA5DN -SB-081111)	1-METHYLNAPHTHALENE	63	-	71.00-117.00	43 (30.00)	1-METHYLNAPHTHALENE	
	2-METHYLNAPHTHALENE	63	-	75.00-115.00	43 (30.00)	2-METHYLNAPHTHALENE	
	ACENAPHTHENE	66	-	74.00-109.00	44 (30.00)	ACENAPHTHENE	
	ACENAPHTHYLENE	65	-	70.00-110.00	45 (30.00)	ACENAPHTHYLENE	
	ANTHRACENE	-	-	66.00-111.00	44 (30.00)	ANTHRACENE	
	BENZO(A)ANTHRACENE	68	-	72.00-114.00	43 (30.00)	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	-	-	60.00-127.00	43 (30.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-	-	58.00-151.00	43 (30.00)	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-	-	57.00-131.00	46 (30.00)	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-	-	59.00-130.00	42 (30.00)	BENZO(K)FLUORANTHENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	-	-	57.00-154.00	41 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	Butylbenzylphthalate	-	-	40.00-138.00	38 (30.00)	Butylbenzylphthalate	J(all detects)
	CHRYSENE	67	-	76.00-116.00	43 (30.00)	CHRYSENE	UJ(all non-detects)
	DIBENZO(A,H)ANTHRACENE	-	-	55.00-134.00	46 (30.00)	DIBENZO(A,H)ANTHRACENE	
	Diethylphthalate	-	-	57.00-134.00	44 (30.00)	Diethylphthalate	
	Dimethylphthalate	-	-	40.00-119.00	43 (30.00)	Dimethylphthalate	
	Di-n-butylphthalate	71	-	74.00-131.00	46 (30.00)	Di-n-butylphthalate	
	FLUORANTHENE	72	-	75.00-116.00	44 (30.00)	FLUORANTHENE	
	FLUORENE	72	-	75.00-114.00	43 (30.00)	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	58	-	69.00-124.00	46 (30.00)	INDENO(1,2,3-CD)PYRENE	
	NAPHTHALENE	65	-	72.00-109.00	42 (30.00)	NAPHTHALENE	
	N-NITROSODIMETHYLAMINE	-	-	36.00-89.00	52 (30.00)	N-NITROSODIMETHYLAMINE	
	PHENANTHRENE	66	-	76.00-111.00	44 (30.00)	PHENANTHRENE	
	PYRENE	67	-	69.00-118.00	44 (30.00)	PYRENE	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7470A
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23013CY221556 (EB-SA5DN-SB-081111)	MERCURY	-	89	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

Method: 8015M
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12311AQ321700A (SL-033-SA6-SB-2.5-3.5)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J(all detects)

Method: 8082
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12341AY241914A (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	Aroclor 5442	-	114	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408DQ221723	ALUMINUM	141	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits
(DUP24-SA6-QC-081111	IRON	136	-	80.00-120.00	-	IRON	
SL-006-SA5DN-SB-4.0-5.0	TITANIUM	180	-	80.00-120.00	-	TITANIUM	
SL-006-SA5DN-SB-9.0-10.0							
SL-033-SA6-SB-2.5-3.5							
SL-155-SA6-SB-4.0-5.0							
SL-174-SA6-SB-2.0-3.0							
SL-207-SA5DN-SB-4.0-5.0)							

Surrogate Outlier Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 1625C
Matrix: AQ

Sample ID	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
EB-SA5DN-SB-081111	N-Nitrosodimethylamine-d6	219	50.00-150.00	All Target Analytes	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
MOISTURE	5.6	5.0	11		No Qualifiers Applied

Method: 300.0
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
FLUORIDE	2.3	2.6	12	50.00	No Qualifiers Applied

Method: 6010B
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
ALUMINUM	20600	20000	3	50.00	
BORON	4.32	3.96	9	50.00	
CALCIUM	1960	1930	2	50.00	
IRON	20700	20600	0	50.00	
LITHIUM	25.9	25.9	0	50.00	
MAGNESIUM	4630	4470	4	50.00	
MANGANESE	217	188	14	50.00	No Qualifiers Applied
PHOSPHORUS	220	208	6	50.00	
POTASSIUM	1590	1510	5	50.00	
SODIUM	86.9	87.4	1	50.00	
STRONTIUM	17.0	16.8	1	50.00	
TIN	2.78	2.81	1	50.00	
TITANIUM	1140	1090	4	50.00	
Zirconium	4.48	2.33	63	50.00	J(all detects)

Method: 6020
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
ARSENIC	3.50	4.01	14	50.00	
BARIUM	86.8	89.4	3	50.00	
BERYLLIUM	0.606	0.639	5	50.00	
CHROMIUM	18.5	19.2	4	50.00	
COBALT	4.37	4.79	9	50.00	
COPPER	6.34	6.16	3	50.00	
LEAD	4.67	4.98	6	50.00	
MOLYBDENUM	0.531	0.623	16	50.00	No Qualifiers Applied
NICKEL	11.5	11.7	2	50.00	
SELENIUM	0.120	0.103	15	50.00	
SILVER	0.0466	0.0421	10	50.00	
THALLIUM	0.223	0.222	0	50.00	
VANADIUM	36.1	37.2	3	50.00	
ZINC	45.3	44.1	3	50.00	
ANTIMONY	0.129	0.208 U	200	50.00	J(all detects)
CADMIUM	0.0475	0.104 U	200	50.00	UJ(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7199
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
HEXAVALENT CHROMIUM	0.78	0.49	46	50.00	No Qualifiers Applied

Method: 8082
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
AROCLOR 1254	0.93	1.8 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
PH	6.09	6.00	1	50.00	No Qualifiers Applied

Reporting Limit Outliers

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	BORON	J	0.0055	0.0500	PQL	mg/L	J (all detects)

Method: 6020
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	LEAD	J	0.00011	0.0010	PQL	mg/L	J (all detects)

Method: 8270C SIM
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	Butylbenzylphthalate	J	0.14	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.13	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.71	1.1	PQL	ug/L	

Method: 8330A
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	4-AMINO-2,6-DINITROTOLUENE	J	0.41	0.60	PQL	ug/L	J (all detects)

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	Nitrate-NO3	J	0.88	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	BORON	J	3.96	5.26	PQL	mg/Kg	J (all detects)
	SODIUM	J	87.4	105	PQL	mg/Kg	
	TIN	J	2.81	10.5	PQL	mg/Kg	
	Zirconium	J	2.33	5.26	PQL	mg/Kg	
SL-006-SA5DN-SB-4.0-5.0	TIN	J	3.14	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.31	5.65	PQL	mg/Kg	
SL-006-SA5DN-SB-9.0-10.0	TIN	J	3.03	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.59	5.45	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	BORON	J	4.23	5.09	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.4	102	PQL	mg/Kg	
	TIN	J	2.68	10.2	PQL	mg/Kg	
	Zirconium	J	1.62	5.09	PQL	mg/Kg	
SL-155-SA6-SB-4.0-5.0	BORON	J	4.32	5.24	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.9	105	PQL	mg/Kg	
	TIN	J	2.78	10.5	PQL	mg/Kg	
	Zirconium	J	4.48	5.24	PQL	mg/Kg	
SL-174-SA6-SB-2.0-3.0	BORON	J	3.30	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.3	PQL	mg/Kg	
	Zirconium	J	1.34	5.16	PQL	mg/Kg	
SL-207-SA5DN-SB-4.0-5.0	TIN	J	3.07	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.18	5.49	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	SELENIUM	J	0.103	0.417	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0421	0.104	PQL	mg/Kg	
SL-006-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.142	0.226	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.107	0.113	PQL	mg/Kg	
	SILVER	J	0.0487	0.113	PQL	mg/Kg	
SL-006-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0976	0.110	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0241	0.110	PQL	mg/Kg	
SL-033-SA6-SB-2.5-3.5	SELENIUM	J	0.108	0.403	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0383	0.101	PQL	mg/Kg	
SL-155-SA6-SB-4.0-5.0	ANTIMONY	J	0.129	0.210	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0475	0.105	PQL	mg/Kg	
	SELENIUM	J	0.120	0.420	PQL	mg/Kg	
	SILVER	J	0.0466	0.105	PQL	mg/Kg	
SL-174-SA6-SB-2.0-3.0	ANTIMONY	J	0.0849	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.417	PQL	mg/Kg	
	SILVER	J	0.0241	0.104	PQL	mg/Kg	
SL-207-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.145	0.228	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0366	0.114	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.78	1.1	PQL	mg/Kg	J (all detects)
SL-174-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.51	1.0	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE222 **Laboratory: LL**

EDD Filename: DE222_v2 **eQAPP Name: CDM_SSFL_110509**

Method: 7471A
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-4.0-5.0	MERCURY	J	0.0090	0.108	PQL	mg/Kg	J (all detects)

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-207-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.70	1.4	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.57	1.9	PQL	ug/Kg	J (all detects)
SL-033-SA6-SB-2.5-3.5	AROCLOR 1260	J	0.45	1.8	PQL	ug/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.93	1.8	PQL	ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	350	PQL	ug/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE Di-n-octylphthalate	J J	63 49	350 180	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.9	20	PQL	ug/Kg	J (all detects)
SL-033-SA6-SB-2.5-3.5	CHRYSENE FLUORANTHENE PHENANTHRENE PYRENE	J J J J	0.87 1.2 0.99 0.85	1.7 1.7 1.7 1.7	PQL PQL PQL PQL	ug/Kg ug/Kg ug/Kg ug/Kg	J (all detects)

LDC #: 26533K4 **VALIDATION COMPLETENESS WORKSHEET** Date: 11/7/11
SDG #: DE222 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: MM
2nd Reviewer: A

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti >4X.
VII.	Duplicate Sample Analysis	NA	Sb, Zn <5X
VIII.	Laboratory Control Samples (LCS)	NA	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV	Field Blanks	SW	EB=B

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	SL-006-SA5DN-SB-4.0-5.0	11	SL-155-SA6-SB-4.0-5.0DUP	21		31	
2	SL-006-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-207-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-155-SA6-SB-4.0-5.0	14		24		34	
5	SL-174-SA6-SB-2.0-3.0	15		25		35	
6	SL-033-SA6-SB-2.5-3.5	16		26		36	
7	DUP24-SA6-QC-081111	17		27		37	
8	EB-SA5DN-SB-081111	18		28		38	
9	SL-155-SA6-SB-4.0-5.0MS	19		29		39	
10	SL-155-SA6-SB-4.0-5.0MSD	20		30		40	

Notes:

LDC #: 26533K4

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)
Soil preparation factor applied: ICP:100X, ICP/MS: 200X
Sample Concentration units, unless otherwise noted: mg/Kg
Associated Samples: All Soil Reason: B

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] (ug/L)	Action Limit	1	5	6	7						
Zr			6.7	3.35	3.3	1.3	1.6	2.3						

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U". Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

LDC #: 26533K4

VALIDATION FINDINGS WORKSHEET
Field Blanks

METHOD: Trace Metals (EPA SW846 6010B/6020/7000)

Y N N/A Were field blanks identified in this SDG?

Y N N/A Were target analytes detected in the field blanks?

Blank units: ug/L **Associated sample units:** mg/Kg

Sampling date: 8/11/11 Soil factor applied 100x

Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples: All Soil (>5X)

Analyte	Blank ID	Sample Identification											
	4	Action Level											
B	5.5	2.75											
Pb	0.11	0.055											

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE222
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6374010BKG Matrix Spike Lab Sample ID: 6374011MS Matrix Spike Duplicate Lab Sample ID: 6374012MSD
% Solids for Sample: 94.4
Batch Id(s): P22408D, P22426B, P22411B

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		20606.3780		24194.7667		23624.6261		207.7102	207.7102	MG/KG	1728		1453		2			20	P
Antimony	121	0.1290	B	0.4765		0.5123		1.2463	1.2586	MG/KG	28	N	30	N	7		75 - 125	20	MS
Arsenic	75	3.5031		5.5438		5.5588		2.0771	2.0977	MG/KG	98		98		0		75 - 125	20	MS
Barium	137	86.8015		104.5198		99.1358		10.3855	10.4883	MG/KG	171		118		5			20	MS
Beryllium	9	0.6056		1.4689		1.4552		0.8308	0.8391	MG/KG	104		101		1		75 - 125	20	MS
Boron		4.3180	B	218.0199		217.6647		207.7102	207.7102	MG/KG	103		103		0		84 - 115	20	P
Cadmium	111	0.0475	B	1.0815		1.1571		1.0386	1.0488	MG/KG	100		106		7		75 - 125	20	MS
Calcium		1960.7327		2492.0239		2556.6073		415.4204	415.4204	MG/KG	128		143		3			20	P
Chromium	52	18.5203		30.0349		29.5142		10.3855	10.4883	MG/KG	111		105		2		75 - 125	20	MS
Cobalt	59	4.3673		59.1766		58.4200		51.9276	52.4417	MG/KG	106		103		1		75 - 125	20	MS
Copper	63	6.3392		16.9699		16.5925		10.3855	10.4883	MG/KG	102		98		2		75 - 125	20	MS
Iron		20694.8481		20871.8781		21601.6721		103.8551	103.8551	MG/KG	170		873		3			20	P
Lead	208	4.6736		8.3915		8.1578		3.1157	3.1465	MG/KG	119		111		3		75 - 125	20	MS
Lithium		25.8705		131.0641		130.4140		103.8551	103.8551	MG/KG	101		101		0		82 - 114	20	P
Magnesium		4628.0385		4861.1893		5056.3881		207.7102	207.7102	MG/KG	112		206		4			20	P
Manganese		216.5852		256.3424		259.6980		51.9276	51.9276	MG/KG	77		83		1			20	P
Mercury		0.0074	U	0.1681		0.1684		0.1681	0.1700	MG/KG	100		99		0		65 - 135	20	CV
Molybdenum	98	0.5313		11.0917		10.9519		10.3855	10.4883	MG/KG	102		99		1		75 - 125	20	MS
Nickel	60	11.5309		22.7858		22.9904		10.3855	10.4883	MG/KG	108		109		1		75 - 125	20	MS
Phosphorus		220.0034		316.4029		322.9790		103.8551	103.8551	MG/KG	93		99		2		75 - 125	20	P
Potassium		1591.9628		2742.4799		2831.6955		1038.5510	1038.5510	MG/KG	111		119		3		75 - 125	20	P
Selenium	78	0.1199	B	2.4136		2.3032		2.0771	2.0977	MG/KG	110		104		5		75 - 125	20	MS
Silver	107	0.0466	B	11.1104		11.0023		10.3855	10.4883	MG/KG	107		104		1		75 - 125	20	MS
Sodium		86.8550	B	1111.8769		1097.7225		1038.5510	1038.5510	MG/KG	99		97		1		75 - 125	20	P
Strontium		16.9754		126.3418		125.0114		103.8551	103.8551	MG/KG	105		104		1		75 - 115	20	P
Thallium	203	0.2226		0.6487		0.6926		0.4154	0.4195	MG/KG	103		112		7		75 - 125	20	MS
Tin		2.7847	B	386.9537		381.8306		415.4204	415.4204	MG/KG	92		91		1		80 - 110	20	P
Titanium		1135.4411		1360.1882		1385.0906		103.8551	103.8551	MG/KG	216		240		2			20	P
Vanadium	51	36.1428		50.2866		49.1274		10.3855	10.4883	MG/KG	136	N	124		2		75 - 125	20	MS
Zinc	66	45.3096		56.2272		55.8399		10.3855	10.4883	MG/KG	105		100		1			20	MS
Zirconium		4.4796	B	106.4920		102.1342		103.8551	103.8551	MG/KG	98		94		4		75 - 125	20	P

Sb post spike: 76% J/nJ

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

SAMPLE DELIVERY GROUP

DE229

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3050B	6010B	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3050B	6020	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3060A	7199	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3550B	8082	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3550B	8270C	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3550B	8270C SIM	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	METHOD	300.0	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	METHOD	314.0	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	METHOD	7471A	III
22-Aug-2011	TB-082211	6384475	TB	5030B	8015M	III
22-Aug-2011	TB-082211	6384475	TB	5030B	8260B	III
22-Aug-2011	TB-082211	6384475	TB	5030B	8260B SIM	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3050B	6010B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3060A	7199	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3546	1625C	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8015B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8015M	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8082	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8270C	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8270C SIM	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	5035	8015M	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	8330	8330A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	300.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	314.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	8015B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	8015M	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	8315A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	9012B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221008A	DUP	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221008B	DUP	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221008C	DUP	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221008D	DUP	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221009	DUP	3050B	6010B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D221905	DUP	METHOD	7471A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D270035A	DUP	3060A	7199	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D270303A	DUP	METHOD	314.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0DUP	P384465D271003A	DUP	METHOD	300.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221018	MSD	3050B	6010B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221120A	MSD	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221120B	MSD	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221120C	MSD	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221120D	MSD	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M221907	MSD	METHOD	7471A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M260058	MSD	3546	1625C	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MSD	P384465M321853A	MSD	METHOD	8015B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221011A	MS	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221011B	MS	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221011C	MS	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221011D	MS	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221014	MS	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R221906	MS	METHOD	7471A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R260038	MS	3546	1625C	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R270326A	MS	METHOD	314.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R271016A	MS	METHOD	300.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R272354A	MS	3060A	7199	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0MS	P384465R321838A	MS	METHOD	8015B	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3050B	6010B	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3050B	6020	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3060A	7199	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3550B	8082	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3550B	8270C	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	3550B	8270C SIM	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	METHOD	300.0	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	METHOD	314.0	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	METHOD	6850	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384473	N	METHOD	7471A	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3050B	6010B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3050B	6020	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3060A	7199	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3546	1625C	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3550B	8015B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3550B	8015M	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3550B	8082	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3550B	8270C	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	3550B	8270C SIM	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	5035	8015M	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	5035	8260B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	5035	8260B SIM	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	8330	8330A	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	300.0	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	314.0	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	7471A	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	8015B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	8015M	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	8315A	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384470	N	METHOD	9012B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3050B	6010B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3050B	6020	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3060A	7199	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3546	1625C	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3550B	8015B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3550B	8015M	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3550B	8082	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3550B	8270C	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	3550B	8270C SIM	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	5035	8015M	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	5035	8260B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	5035	8260B SIM	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	8330	8330A	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	300.0	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	314.0	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	8015B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	8015M	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	8315A	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384471	N	METHOD	9012B	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3050B	6010B	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3050B	6020	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3060A	7199	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3550B	8082	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3550B	8270C	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	3550B	8270C SIM	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	METHOD	300.0	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	METHOD	314.0	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384469	N	METHOD	7471A	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3050B	6010B	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3050B	6020	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3060A	7199	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3550B	8082	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3550B	8270C	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	3550B	8270C SIM	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	METHOD	300.0	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	METHOD	314.0	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384468	N	METHOD	7471A	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3050B	6010B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3050B	6020	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3060A	7199	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3546	1625C	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3550B	8015B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3550B	8015M	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3550B	8082	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3550B	8270C	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	3550B	8270C SIM	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	5035	8015M	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	5035	8260B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	5035	8260B SIM	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	8330	8330A	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	300.0	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	314.0	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	7471A	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	8015B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	8015M	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	8315A	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384472	N	METHOD	9012B	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3050B	6010B	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3050B	6020	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3060A	7199	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3550B	8082	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3550B	8270C	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	3550B	8270C SIM	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	METHOD	300.0	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	METHOD	314.0	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384466	N	METHOD	7471A	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3050B	6010B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3050B	6020	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3060A	7199	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3550B	8082	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3550B	8270C	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	3550B	8270C SIM	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	METHOD	300.0	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	METHOD	314.0	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	METHOD	6850	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384467	N	METHOD	7471A	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-007-SA5DN-SS-0.0-0.5 **Collected: 8/22/2011 8:00:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.2		0.91	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-215-SA6-SB-4.0-5.0 **Collected: 8/22/2011 8:10:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-241-SA6-SB-4.0-5.0 **Collected: 8/22/2011 12:12:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-241-SA6-SB-9.0-10.0 **Collected: 8/22/2011 12:13:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.89	U	0.89	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-242-SA6-SB-4.0-5.0 **Collected: 8/22/2011 11:05:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.87	J	0.85	MDL	1.1	PQL	mg/Kg	J	Z, Q

Sample ID: SL-242-SA6-SB-9.0-10.0 **Collected: 8/22/2011 11:04:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-279-SA6-SB-1.0-2.0 **Collected: 8/22/2011 10:25:00** **Analysis Type: RES** **Dilution: 1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.2		0.84	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	1.5	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 300.0 **Matrix: SO**

Sample ID: SL-279-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q
Nitrate-NO3	0.93	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 *Collected:* 8/22/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.87	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	0.95	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-007-SA5DN-SS-0.0-0.5 *Collected:* 8/22/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.80	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.20	J	0.526	MDL	5.71	PQL	mg/Kg	J	Z

Sample ID: SL-215-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.41	J	0.394	MDL	5.47	PQL	mg/Kg	J	Z
TIN	2.70	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.33	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 12:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.713	J	0.389	MDL	5.40	PQL	mg/Kg	J	Z
TIN	2.65	J	0.346	MDL	10.8	PQL	mg/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6010B **Matrix: SO**

Sample ID: SL-241-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 12:12:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.90	J	0.497	MDL	5.40	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SB-9.0-10.0 **Collected:** 8/22/2011 12:13:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.07	J	0.381	MDL	5.30	PQL	mg/Kg	J	Z
TIN	3.14	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.36	J	0.487	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 11:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.71	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z
SODIUM	91.7	J	6.26	MDL	105	PQL	mg/Kg	J	Z
TIN	2.42	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.85	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-9.0-10.0 **Collected:** 8/22/2011 11:04:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.652	J	0.382	MDL	5.31	PQL	mg/Kg	J	Z
TIN	2.96	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.81	J	0.488	MDL	5.31	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0 **Collected:** 8/22/2011 10:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.04	J	0.359	MDL	4.98	PQL	mg/Kg	J	Z
SODIUM	80.3	J	5.93	MDL	99.6	PQL	mg/Kg	J	Z
TIN	2.55	J	0.319	MDL	9.96	PQL	mg/Kg	U	B
Zirconium	1.90	J	0.458	MDL	4.98	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory:** LL

EDD Filename: DE229_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6010B **Matrix:** SO

Sample ID: SL-279-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.05	J	0.378	MDL	5.25	PQL	mg/Kg	J	Z
TIN	2.73	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.51	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 *Collected:* 8/22/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.711	J	0.375	MDL	5.21	PQL	mg/Kg	J	Z
TIN	2.69	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.50	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.82	J	0.395	MDL	5.48	PQL	mg/Kg	J	Z
TIN	2.88	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.55	J	0.504	MDL	5.48	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5 *Collected:* 8/22/2011 8:00:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.333	J	0.0663	MDL	0.457	PQL	mg/Kg	J	Z, E

Sample ID: SL-007-SA5DN-SS-0.0-0.5 *Collected:* 8/22/2011 8:00:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0846	U	0.0846	MDL	0.229	PQL	mg/Kg	R	Q
ARSENIC	7.48		0.0914	MDL	0.457	PQL	mg/Kg	J	Q, E, E
COBALT	14.0		0.0229	MDL	0.114	PQL	mg/Kg	J	E
COPPER	21.6		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
LEAD	16.2		0.0117	MDL	0.229	PQL	mg/Kg	J	Q, Q, E
NICKEL	26.7		0.114	MDL	0.457	PQL	mg/Kg	J	Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: **SL-007-SA5DN-SS-0.0-0.5** ***Collected:*** **8/22/2011 8:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0721	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: **SL-215-SA6-SB-4.0-5.0** ***Collected:*** **8/22/2011 8:10:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.106	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z, E

Sample ID: **SL-215-SA6-SB-4.0-5.0** ***Collected:*** **8/22/2011 8:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0810	U	0.0810	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	7.22		0.0876	MDL	0.438	PQL	mg/Kg	J	Q, E, E
CADMIUM	0.105	J	0.0482	MDL	0.109	PQL	mg/Kg	J	Z
COBALT	7.10		0.0219	MDL	0.109	PQL	mg/Kg	J	E
COPPER	12.7		0.0876	MDL	0.438	PQL	mg/Kg	J	Q
LEAD	8.77		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, Q, E
NICKEL	16.8		0.109	MDL	0.438	PQL	mg/Kg	J	Q
SILVER	0.0722	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: **SL-241-SA6-SB-4.0-5.0** ***Collected:*** **8/22/2011 12:12:00** ***Analysis Type:*** **REA** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0675	J	0.0626	MDL	0.432	PQL	mg/Kg	J	Z, E

Sample ID: **SL-241-SA6-SB-4.0-5.0** ***Collected:*** **8/22/2011 12:12:00** ***Analysis Type:*** **RES** ***Dilution:*** **2**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0799	U	0.0799	MDL	0.216	PQL	mg/Kg	R	Q
ARSENIC	5.86		0.0864	MDL	0.432	PQL	mg/Kg	J	Q, E, E
CADMIUM	0.0662	J	0.0475	MDL	0.108	PQL	mg/Kg	J	Z
COBALT	6.78		0.0216	MDL	0.108	PQL	mg/Kg	J	E
COPPER	8.82		0.0864	MDL	0.432	PQL	mg/Kg	J	Q
LEAD	6.02		0.0110	MDL	0.216	PQL	mg/Kg	J	Q, Q, E
NICKEL	15.5		0.108	MDL	0.432	PQL	mg/Kg	J	Q
SILVER	0.0429	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 6020 **Matrix: SO**

Sample ID: SL-241-SA6-SB-9.0-10.0 *Collected:* 8/22/2011 12:13:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0790	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z, E

Sample ID: SL-241-SA6-SB-9.0-10.0 *Collected:* 8/22/2011 12:13:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0784	U	0.0784	MDL	0.212	PQL	mg/Kg	R	Q
ARSENIC	9.55		0.0848	MDL	0.424	PQL	mg/Kg	J	Q, E, E
COBALT	7.67		0.0212	MDL	0.106	PQL	mg/Kg	J	E
COPPER	12.9		0.0848	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	9.52		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q, E
NICKEL	16.6		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0751	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 11:05:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.145	J	0.0610	MDL	0.421	PQL	mg/Kg	J	Z, E

Sample ID: SL-242-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 11:05:00 *Analysis Type:* RES *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0779	U	0.0779	MDL	0.210	PQL	mg/Kg	R	Q
ARSENIC	5.34		0.0842	MDL	0.421	PQL	mg/Kg	J	Q, E, E
COBALT	8.80		0.0210	MDL	0.105	PQL	mg/Kg	J	E
COPPER	15.8		0.0842	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	6.95		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, Q, E
NICKEL	22.3		0.105	MDL	0.421	PQL	mg/Kg	J	Q
SILVER	0.0564	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-9.0-10.0 *Collected:* 8/22/2011 11:04:00 *Analysis Type:* REA *Dilution:* 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0954	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory:** LL

EDD Filename: DE229_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-242-SA6-SB-9.0-10.0 ***Collected:*** 8/22/2011 11:04:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0785	U	0.0785	MDL	0.212	PQL	mg/Kg	R	Q
ARSENIC	7.11		0.0849	MDL	0.424	PQL	mg/Kg	J	Q, E, E
COBALT	6.19		0.0212	MDL	0.106	PQL	mg/Kg	J	E
COPPER	11.6		0.0849	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	7.39		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q, E
NICKEL	18.0		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0498	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0 ***Collected:*** 8/22/2011 10:25:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.110	J	0.0578	MDL	0.398	PQL	mg/Kg	J	Z, E

Sample ID: SL-279-SA6-SB-1.0-2.0 ***Collected:*** 8/22/2011 10:25:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0737	U	0.0737	MDL	0.199	PQL	mg/Kg	R	Q
ARSENIC	6.95		0.0797	MDL	0.398	PQL	mg/Kg	J	Q, E, E
COBALT	7.67		0.0199	MDL	0.0996	PQL	mg/Kg	J	E
COPPER	12.5		0.0797	MDL	0.398	PQL	mg/Kg	J	Q
LEAD	5.85		0.0102	MDL	0.199	PQL	mg/Kg	J	Q, Q, E
NICKEL	17.0		0.0996	MDL	0.398	PQL	mg/Kg	J	Q
SILVER	0.0628	J	0.0141	MDL	0.0996	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-4.0-5.0 ***Collected:*** 8/22/2011 11:00:00 ***Analysis Type:*** REA ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0887	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z, E

Sample ID: SL-279-SA6-SB-4.0-5.0 ***Collected:*** 8/22/2011 11:00:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0777	U	0.0777	MDL	0.210	PQL	mg/Kg	R	Q
ARSENIC	9.27		0.0840	MDL	0.420	PQL	mg/Kg	J	Q, E, E
CADMIUM	0.0918	J	0.0462	MDL	0.105	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory:** LL

EDD Filename: DE229_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS

Method: 6020 **Matrix:** SO

Sample ID: SL-279-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 11:00:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.08		0.0210	MDL	0.105	PQL	mg/Kg	J	E
COPPER	11.1		0.0840	MDL	0.420	PQL	mg/Kg	J	Q
LEAD	7.29		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, Q, E
NICKEL	18.0		0.105	MDL	0.420	PQL	mg/Kg	J	Q
SILVER	0.0882	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 **Collected:** 8/22/2011 11:50:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0605	U	0.0605	MDL	0.417	PQL	mg/Kg	UJ	E

Sample ID: SL-279-SA6-SB-9.0-10.0 **Collected:** 8/22/2011 11:50:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0772	U	0.0772	MDL	0.209	PQL	mg/Kg	R	Q
ARSENIC	6.47		0.0834	MDL	0.417	PQL	mg/Kg	J	Q, E, E
COBALT	7.30		0.0209	MDL	0.104	PQL	mg/Kg	J	E
COPPER	9.78		0.0834	MDL	0.417	PQL	mg/Kg	J	Q
LEAD	6.26		0.0106	MDL	0.209	PQL	mg/Kg	J	Q, Q, E
NICKEL	15.9		0.104	MDL	0.417	PQL	mg/Kg	J	Q
SILVER	0.0422	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 9:15:00 **Analysis Type:** REA **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.146	J	0.0636	MDL	0.439	PQL	mg/Kg	J	Z, E

Sample ID: SL-310-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 9:15:00 **Analysis Type:** RES **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0812	U	0.0812	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	7.17		0.0877	MDL	0.439	PQL	mg/Kg	J	Q, E, E
COBALT	10.4		0.0219	MDL	0.110	PQL	mg/Kg	J	E
COPPER	23.1		0.0877	MDL	0.439	PQL	mg/Kg	J	Q
LEAD	11.9		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, Q, E

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory:** LL

EDD Filename: DE229_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: METALS **Method:** 6020 **Matrix:** SO

Sample ID: SL-310-SA6-SB-4.0-5.0 ***Collected:*** 8/22/2011 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NICKEL	28.4		0.110	MDL	0.439	PQL	mg/Kg	J	Q
SILVER	0.0698	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z

Method Category: METALS **Method:** 7199 **Matrix:** SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5 ***Collected:*** 8/22/2011 8:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.23	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SB-4.0-5.0 ***Collected:*** 8/22/2011 12:12:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SB-9.0-10.0 ***Collected:*** 8/22/2011 12:13:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-4.0-5.0 ***Collected:*** 8/22/2011 11:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-9.0-10.0 ***Collected:*** 8/22/2011 11:04:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0 ***Collected:*** 8/22/2011 10:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.26	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: METALS

Method: 7199 **Matrix: SO**

Sample ID: SL-279-SA6-SB-9.0-10.0 *Collected:* 8/22/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-310-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.55	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 7471A **Matrix: SO**

Sample ID: SL-007-SA5DN-SS-0.0-0.5 *Collected:* 8/22/2011 8:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0139	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0 *Collected:* 8/22/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0106	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 *Collected:* 8/22/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0106	J	0.0076	MDL	0.107	PQL	mg/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 8015M **Matrix: SO**

Sample ID: SL-215-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 8:10:00 *Analysis Type:* DL2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.1	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0 *Collected:* 8/22/2011 10:25:00 *Analysis Type:* DL2 *Dilution:* 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	2.8	J	2.1	MDL	6.3	PQL	mg/Kg	J	Z
EFH (C8-C11)	2.9	J	2.1	MDL	6.3	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 *Collected:* 8/22/2011 11:50:00 *Analysis Type:* DL2 *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.67	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 8082 **Matrix: SO**

Sample ID: SL-215-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 8:10:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.85	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA6-SB-4.0-5.0 *Collected:* 8/22/2011 11:00:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	3.2	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 *Collected:* 8/22/2011 11:50:00 *Analysis Type:* RES-BASE/NEUTRAL *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.82	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.90	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.8	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory:** LL

EDD Filename: DE229_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 8082 **Matrix:** SO

Sample ID: SL-310-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 9:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.73	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z

Method Category: SVOA **Method:** 8270C **Matrix:** SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5 **Collected:** 8/22/2011 8:00:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BENZO(G,H,I)PERYLENE	41	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 8:10:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Sample ID: SL-241-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 12:12:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-241-SA6-SB-9.0-10.0 **Collected:** 8/22/2011 12:13:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-242-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 11:05:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

Sample ID: SL-242-SA6-SB-9.0-10.0 **Collected:** 8/22/2011 11:04:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory:** LL

EDD Filename: DE229_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA **Method:** 8270C **Matrix:** SO

Sample ID: SL-279-SA6-SB-1.0-2.0 **Collected:** 8/22/2011 10:25:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

Sample ID: SL-279-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 11:00:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-279-SA6-SB-9.0-10.0 **Collected:** 8/22/2011 11:50:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-310-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 9:15:00 **Analysis Type:** RES-ACID **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

Method Category: SVOA **Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5 **Collected:** 8/22/2011 8:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	2.7	J	1.9	MDL	9.4	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA6-SB-4.0-5.0 **Collected:** 8/22/2011 8:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.45	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0 **Collected:** 8/22/2011 11:50:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.49	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: VOA

Method: 8260B **Matrix:** SO

Sample ID: **SL-279-SA6-SB-1.0-2.0** ***Collected:*** **8/22/2011 10:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1.07**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.2	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.36	J	0.09	MDL	4.5	PQL	ug/Kg	J	Z

Sample ID: **SL-279-SA6-SB-4.0-5.0** ***Collected:*** **8/22/2011 11:00:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.82	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.27	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

Sample ID: **SL-279-SA6-SB-9.0-10.0** ***Collected:*** **8/22/2011 11:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **0.94**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	1.0	J	0.24	MDL	4.1	PQL	ug/Kg	U	B
TOLUENE	0.19	J	0.08	MDL	4.1	PQL	ug/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DE229

Method Blank Outlier Report

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23608EB220949	8/31/2011 9:49:00 AM	CALCIUM	7.55 mg/Kg	SL-007-SA5DN-SS-0.0-0.5
		IRON	4.64 mg/Kg	SL-215-SA6-SB-4.0-5.0
		MANGANESE	0.0441 mg/Kg	SL-241-SA6-SB-4.0-5.0
		PHOSPHORUS	1.52 mg/Kg	SL-241-SA6-SB-9.0-10.0
		STRONTIUM	0.0412 mg/Kg	SL-242-SA6-SB-4.0-5.0
		TIN	1.84 mg/Kg	SL-242-SA6-SB-9.0-10.0
				SL-279-SA6-SB-1.0-2.0
				SL-279-SA6-SB-4.0-5.0
				SL-279-SA6-SB-9.0-10.0
				SL-310-SA6-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-007-SA5DN-SS-0.0-0.5(RES)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-215-SA6-SB-4.0-5.0(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-241-SA6-SB-4.0-5.0(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-241-SA6-SB-9.0-10.0(RES)	TIN	3.14 mg/Kg	3.14U mg/Kg
SL-242-SA6-SB-4.0-5.0(RES)	TIN	2.42 mg/Kg	2.42U mg/Kg
SL-242-SA6-SB-9.0-10.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-279-SA6-SB-1.0-2.0(RES)	TIN	2.55 mg/Kg	2.55U mg/Kg
SL-279-SA6-SB-4.0-5.0(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-279-SA6-SB-9.0-10.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-310-SA6-SB-4.0-5.0(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg

Method: 6020
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23608EB220956A	8/30/2011 9:56:00 AM	VANADIUM	0.0917 mg/Kg	SL-007-SA5DN-SS-0.0-0.5
				SL-215-SA6-SB-4.0-5.0
				SL-241-SA6-SB-4.0-5.0
				SL-241-SA6-SB-9.0-10.0
				SL-242-SA6-SB-4.0-5.0
				SL-242-SA6-SB-9.0-10.0
				SL-279-SA6-SB-1.0-2.0
				SL-279-SA6-SB-4.0-5.0
				SL-279-SA6-SB-9.0-10.0
				SL-310-SA6-SB-4.0-5.0

Method: 8260B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB49B211347A	8/25/2011 1:47:00 PM	CHLOROFORM	0.15 ug/Kg	SL-279-SA6-SB-1.0-2.0
		METHYLENE CHLORIDE	0.62 ug/Kg	SL-279-SA6-SB-4.0-5.0
				SL-279-SA6-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **8260B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-279-SA6-SB-1.0-2.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	4.5U ug/Kg
SL-279-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.82 ug/Kg	4.2U ug/Kg
SL-279-SA6-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.0 ug/Kg	4.1U ug/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA6-SB-4.0-5.0MS **SL-215-SA6-SB-4.0-5.0MSD** (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE TITANIUM	2403 227 2058 370 203 261	4510 379 3214 718 - 264	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE TITANIUM	No Qual, >4x

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA6-SB-4.0-5.0MS (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	COPPER NICKEL	142 146	- -	75.00-125.00 75.00-125.00	- -	COPPER NICKEL	J(all detects)
SL-215-SA6-SB-4.0-5.0MS **SL-215-SA6-SB-4.0-5.0MSD** (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	ANTIMONY ARSENIC VANADIUM	28 - -	22 1 7	75.00-125.00 75.00-125.00 75.00-125.00	28 (20.00) 25 (20.00) -	ANTIMONY ARSENIC VANADIUM	J(all detects) R(all non-detects) V, No Qual, >4x Sb post spike = 61% As post spike = 66%
SL-215-SA6-SB-4.0-5.0MS **SL-215-SA6-SB-4.0-5.0MSD** (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	COBALT LEAD ZINC	- 138 142	- 37 36	75.00-125.00 75.00-125.00 75.00-125.00	22 (20.00) 29 (20.00) -	COBALT LEAD ZINC	J(all detects) UJ(all non-detects) Zn, No Qual, >4x

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA6-SB-4.0-5.0MSD (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	SELENIUM	-	-	75.00-125.00	21 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
SL-215-SA6-SB-4.0-5.0MS **SL-215-SA6-SB-4.0-5.0MSD** (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	BARIUM	278	45	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 300.0
Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA6-SB-4.0-5.0MS (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	FLUORIDE	34	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-215-SA6-SB-4.0-5.0DUP (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	FLUORIDE	25	20.00	No Qual, OK by Difference

Method: 6010B
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-215-SA6-SB-4.0-5.0DUP (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	Zirconium	40	20.00	No Qual, OK by Difference

Method: 6020
Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-215-SA6-SB-4.0-5.0DUP (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	ARSENIC	28	20.00	J(all detects) UJ(all non-detects)
	CADMIUM	27	20.00	
	SELENIUM	34	20.00	Cd, Se, No Qual, OK by Difference

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8260B
Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
LCSY85Q211115A (TB-082211)	BROMOCHLOROMETHANE	121	-	80.00-120.00	-	BROMOCHLOROMETHANE	J(all detects)

Method: 6010B
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23608EQ220953 (SL-007-SA5DN -SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	ALUMINUM MAGNESIUM TITANIUM	146 121 175	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM MAGNESIUM TITANIUM	No Qual, SRM within QC Limits

Method: 6020
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23608EQ220959A (SL-007-SA5DN -SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	ANTIMONY	56	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8270C
Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P4LALCSQ261340 (SL-007-SA5DN -SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL	44	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 300.0
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-242-SA6-SB-4.0-5.0	FLUORIDE	J	0.87	1.1	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-1.0-2.0	Nitrate-NO3	J	1.5	1.6	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-4.0-5.0	Nitrate-NO3	J	0.93	1.6	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	TIN	J	2.80	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.20	5.71	PQL	mg/Kg	
SL-215-SA6-SB-4.0-5.0	BORON	J	1.41	5.47	PQL	mg/Kg	J (all detects)
	TIN	J	2.70	10.9	PQL	mg/Kg	
	Zirconium	J	1.33	5.47	PQL	mg/Kg	
SL-241-SA6-SB-4.0-5.0	BORON	J	0.713	5.40	PQL	mg/Kg	J (all detects)
	TIN	J	2.65	10.8	PQL	mg/Kg	
	Zirconium	J	1.90	5.40	PQL	mg/Kg	
SL-241-SA6-SB-9.0-10.0	BORON	J	2.07	5.30	PQL	mg/Kg	J (all detects)
	TIN	J	3.14	10.6	PQL	mg/Kg	
	Zirconium	J	1.36	5.30	PQL	mg/Kg	
SL-242-SA6-SB-4.0-5.0	BORON	J	2.71	5.26	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.7	105	PQL	mg/Kg	
	TIN	J	2.42	10.5	PQL	mg/Kg	
	Zirconium	J	1.85	5.26	PQL	mg/Kg	
SL-242-SA6-SB-9.0-10.0	BORON	J	0.652	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.6	PQL	mg/Kg	
	Zirconium	J	1.81	5.31	PQL	mg/Kg	
SL-279-SA6-SB-1.0-2.0	BORON	J	2.04	4.98	PQL	mg/Kg	J (all detects)
	SODIUM	J	80.3	99.6	PQL	mg/Kg	
	TIN	J	2.55	9.96	PQL	mg/Kg	
	Zirconium	J	1.90	4.98	PQL	mg/Kg	
SL-279-SA6-SB-4.0-5.0	BORON	J	1.05	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	10.5	PQL	mg/Kg	
	Zirconium	J	1.51	5.25	PQL	mg/Kg	
SL-279-SA6-SB-9.0-10.0	BORON	J	0.711	5.21	PQL	mg/Kg	J (all detects)
	TIN	J	2.69	10.4	PQL	mg/Kg	
	Zirconium	J	1.50	5.21	PQL	mg/Kg	
SL-310-SA6-SB-4.0-5.0	BORON	J	1.82	5.48	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	11.0	PQL	mg/Kg	
	Zirconium	J	2.55	5.48	PQL	mg/Kg	

Method: 6020
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	SELENIUM	J	0.333	0.457	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0721	0.114	PQL	mg/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-215-SA6-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J J J	0.105 0.106 0.0722	0.109 0.438 0.109	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-241-SA6-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J J J	0.0662 0.0675 0.0429	0.108 0.432 0.108	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-241-SA6-SB-9.0-10.0	SELENIUM SILVER	J J	0.0790 0.0751	0.424 0.106	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-242-SA6-SB-4.0-5.0	SELENIUM SILVER	J J	0.145 0.0564	0.421 0.105	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-242-SA6-SB-9.0-10.0	SELENIUM SILVER	J J	0.0954 0.0498	0.424 0.106	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-279-SA6-SB-1.0-2.0	SELENIUM SILVER	J J	0.110 0.0628	0.398 0.0996	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-279-SA6-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J J J	0.0918 0.0887 0.0882	0.105 0.420 0.105	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	SILVER	J	0.0422	0.104	PQL	mg/Kg	J (all detects)
SL-310-SA6-SB-4.0-5.0	SELENIUM SILVER	J J	0.146 0.0698	0.439 0.110	PQL PQL	mg/Kg mg/Kg	J (all detects)

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.23	1.1	PQL	mg/Kg	J (all detects)
SL-241-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-241-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.51	1.1	PQL	mg/Kg	J (all detects)
SL-242-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-242-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-1.0-2.0	HEXAVALENT CHROMIUM	J	0.26	1.1	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-310-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.55	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	MERCURY	J	0.0139	0.107	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-1.0-2.0	MERCURY	J	0.0090	0.102	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-4.0-5.0	MERCURY	J	0.0106	0.106	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	MERCURY	J	0.0106	0.107	PQL	mg/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8015M
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-215-SA6-SB-4.0-5.0	EFH (C30-C40)	J	1.1	1.4	PQL	mg/Kg	J (all detects)
SL-279-SA6-SB-1.0-2.0	EFH (C15-C20) EFH (C8-C11)	J J	2.8 2.9	6.3 6.3	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	EFH (C15-C20)	J	0.67	1.3	PQL	mg/Kg	J (all detects)

Method: 8082
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-215-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.85	1.9	PQL	ug/Kg	J (all detects)
SL-279-SA6-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	1.5 1.1 3.2	1.8 1.8 3.5	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	AROCLOR 1254 AROCLOR 1260 Aroclor 5460	J J J	0.82 0.90 2.8	1.8 1.8 3.6	PQL PQL PQL	ug/Kg ug/Kg ug/Kg	J (all detects)
SL-310-SA6-SB-4.0-5.0	AROCLOR 1260	J	0.73	1.9	PQL	ug/Kg	J (all detects)

Method: 8260B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-279-SA6-SB-1.0-2.0	METHYLENE CHLORIDE TOLUENE	J J	1.2 0.36	4.5 4.5	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-279-SA6-SB-4.0-5.0	METHYLENE CHLORIDE TOLUENE	J J	0.82 0.27	4.2 4.2	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	METHYLENE CHLORIDE TOLUENE	J J	1.0 0.19	4.1 4.1	PQL PQL	ug/Kg ug/Kg	J (all detects)

Method: 8270C
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	41	190	PQL	ug/Kg	J (all detects)

Method: 8270C SIM
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SS-0.0-0.5	CHRYSENE	J	2.7	9.4	PQL	ug/Kg	J (all detects)
SL-215-SA6-SB-4.0-5.0	CHRYSENE	J	0.45	1.9	PQL	ug/Kg	J (all detects)
SL-279-SA6-SB-9.0-10.0	CHRYSENE	J	0.49	1.8	PQL	ug/Kg	J (all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DE229 **Laboratory: LL**

EDD Filename: DE229_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag

LDC #: 26533R4 **VALIDATION COMPLETENESS WORKSHEET** Date: 4/7/11
SDG #: DE229 ADR Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: W
2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	P	
III.	Calibration	N	
IV.	Blanks	SW	Na found by MB/CCB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn > 4X
VII.	Duplicate Sample Analysis	SW	Cd, Se, Zr < 5X RL.
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	SL-215-SA6-SB-4.0-5.0	11	# 1 MS	21		31	
2	SL-241-SA6-SB-4.0-5.0	12	1 MSD	22		32	
3	SL-241-SA6-SB-9.0-10.0	13	1 DUP	23		33	
4	SL-242-SA6-SB-4.0-5.0	14		24		34	
5	SL-242-SA6-SB-9.0-10.0	15		25		35	
6	SL-279-SA6-SB-1.0-2.0	16		26		36	
7	SL-279-SA6-SB-4.0-5.0	17		27		37	
8	SL-279-SA6-SB-9.0-10.0	18		28		38	
9	SL-310-SA6-SB-4.0-5.0	19		29		39	
10	SL-007-SA5DN-SS-0.0-0.5	20		30		40	

Notes:

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 5A(MS/MSD)
MATRIX SPIKE/MATRIX SPIKE DUPLICATE
SDG No.: DE229
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6384465BKG Matrix Spike Lab Sample ID: 6384465MS Matrix Spike Duplicate Lab Sample ID: 6384465MSD
% Solids for Sample: 88.7
Batch Id(s): P23608E, P23611A

Analyte	Mass	BKG Sample Result	C	MS Sample Result	C	MSD Sample Result	C	MS Spike Added	MSD Spike Added	Units	MS %R	Q	MSD %R	Q	RPD	Q	Control Limit %R	Control Limit RPD	M
Aluminum		18852.5191		24164.3920		28630.1947		221.0580	216.8069	MG/KG	2403		4510		17			20	P
Antimony	121	0.0810	U	0.3696		0.2797		1.3263	1.3008	MG/KG	28	N	22	N	28	*	75 - 125	20	MS
Arsenic	75	7.2219		9.3176		7.2413		2.2106	2.1681	MG/KG	95		1	N	25	*	75 - 125	20	MS
Barium	137	132.8138		163.4945		137.6507		11.0529	10.8403	MG/KG	278		45		17			20	MS
Beryllium	9	0.9971		1.9937		1.7106		0.8842	0.8672	MG/KG	113		82		15		75 - 125	20	MS
Boron		1.4131	B	223.9163		218.2606		221.0580	216.8069	MG/KG	101		100		3		84 - 115	20	P
Cadmium	111	0.1054	B	1.4853		1.3247		1.1053	1.0840	MG/KG	125		112		11		75 - 125	20	MS
Calcium		2555.5522		3561.3359		4197.3463		442.1160	433.6137	MG/KG	227		379		16			20	P
Chromium	52	27.3202		39.6136		36.0767		11.0529	10.8403	MG/KG	111		81		9		75 - 125	20	MS
Cobalt	59	7.1037		72.2417		57.9308		55.2645	54.2017	MG/KG	118		94		22	*	75 - 125	20	MS
Copper	63	12.6662		28.3617		24.0005		11.0529	10.8403	MG/KG	142	N	105		17		75 - 125	20	MS
Iron		23638.4146		25913.6404		27123.0021		110.5290	108.4034	MG/KG	2058		3214		5			20	P
Lead	208	8.7740		13.3652		9.9861		3.3159	3.2521	MG/KG	138	N	37	N	29	*	75 - 125	20	MS
Lithium		25.5021		137.6948		142.1364		110.5290	108.4034	MG/KG	102		108		3		82 - 114	20	P
Magnesium		4968.2020		5785.6975		6524.8406		221.0580	216.8069	MG/KG	370		718		12			20	P
Manganese		230.8217		343.0356		284.9558		55.2645	54.2017	MG/KG	203		100		18			20	P
Mercury		0.0078	U	0.1915		0.1829		0.1824	0.1810	MG/KG	105		101		5		65 - 135	20	CV
Molybdenum	98	0.4551		12.8634		10.8208		11.0529	10.8403	MG/KG	112		96		17		75 - 125	20	MS
Nickel	60	16.7599		32.8492		27.6429		11.0529	10.8403	MG/KG	146	N	100		17		75 - 125	20	MS
Phosphorus		220.5186		351.6248		322.5848		110.5290	108.4034	MG/KG	119		94		9		75 - 125	20	P
Potassium		2338.4770		3685.3958		3676.6998		1105.2899	1084.0343	MG/KG	122		123		0		75 - 125	20	P
Selenium	78	0.1060	B	2.6682		2.1572		2.2106	2.1681	MG/KG	116		95		21	*	75 - 125	20	MS
Silver	107	0.0722	B	13.5752		11.9179		11.0529	10.8403	MG/KG	122		109		13		75 - 125	20	MS
Sodium		204.5807		1278.0965		1288.6924		1105.2899	1084.0343	MG/KG	97		100		1		75 - 125	20	P
Strontium		23.0832		138.0209		139.5141		110.5290	108.4034	MG/KG	104		107		1		75 - 115	20	P
Thallium	203	0.4006		0.8738		0.7593		0.4421	0.4336	MG/KG	107		83		14		75 - 125	20	MS
Tin		2.6970	B	394.7819		388.9537		442.1160	433.6137	MG/KG	89		89		1		80 - 110	20	P
Titanium		1228.3983		1517.3099		1514.1369		110.5290	108.4034	MG/KG	261		264		0			20	P
Vanadium	51	56.2165		67.5995		56.9768		11.0529	10.8403	MG/KG	103		7		17			20	MS
Zinc	66	72.9414		88.6443		76.7930		11.0529	10.8403	MG/KG	142		36		14			20	MS
Zirconium		1.3321	B	109.3762		108.3189		110.5290	108.4034	MG/KG	98		99		1		75 - 125	20	P

J/R

METHODS:
P = ICP Atomic Emission Spectrometer
MS = ICP Mass Spectrometry
CV = Cold Vapor
AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:
U= Below MDL, B= Below LOQ
FLAGS:
N = Matrix Spike OOS, * = Duplicate OOS

* Post spike Sb = 61
As = 66

Lancaster Laboratories

QUALITY ASSURANCE SUMMARY
FORM 6
DUPLICATES
SDG No.: DE229
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6384465BKG
% Solids for Duplicate: 88.7
Batch ID(s): P23608E, P23611A
Concentration Units: MG/KG

Duplicate Lab Sample ID: 6384465DUP
% Solids for Sample: 88.7

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			18852.5191		18427.4033		2		P
Antimony	121		0.0810	U	0.0802	U			MS
Arsenic	75		7.2219		5.4310		28	*	MS
Barium	137		132.8138		138.1493		4		MS
Beryllium	9		0.9971		0.8965		11		MS
Boron			1.4131	B	1.3659	B	3		P
Cadmium	111	0.1	0.1054	B	0.1380		27		MS
Calcium			2555.5522		2639.5510		3		P
Chromium	52		27.3202		28.3150		4		MS
Cobalt	59		7.1037		7.7639		9		MS
Copper	63		12.6662		13.5396		7		MS
Iron			23638.4146		21729.4500		8		P
Lead	208		8.7740		8.6983		1		MS
Lithium			25.5021		25.9203		2		P
Magnesium			4968.2020		4996.8747		1		P
Manganese			230.8217		236.9764		3		P
Mercury			0.0078	U	0.0080	U			CV
Molybdenum	98	0.1	0.4551		0.3952		14		MS
Nickel	60		16.7599		17.7760		6		MS
Phosphorus			220.5186		195.8189		12		P
Potassium			2338.4770		2269.8422		3		P
Selenium	78		0.1060	B	0.0753	B	34		MS
Silver	107		0.0722	B	0.0855	B	17		MS
Sodium		109.5	204.5807		202.6971		1		P
Strontium			23.0832		22.9935		0		P
Thallium	203	0.1	0.4006		0.3510		13		MS
Tin			2.6970	B	2.8597	B	6		P
Titanium			1228.3983		1185.8870		4		P
Vanadium	51		56.2165		51.1231		9		MS
Zinc	66		72.9414		74.4515		2		MS
Zirconium			1.3321	B	2.0044	B	40		P

NOTE: An asterisk (*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).
The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE229 3535

METHODS:	CONCENTRATION QUALIFIERS:
P = ICP Atomic Emission Spectrometer	U= Below MDL
MS = ICP Mass Spectrometry	B= Below LOQ
CV = Cold Vapor	FLAGS:
AF = Cold Vapor Atomic Fluorescence	* = Duplicate Out of Spec

SAMPLE DELIVERY GROUP

DX081

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-May-2011	SL-096-SA8N-SB-4.0-5.0	6287611	N	METHOD	1613B	III
13-May-2011	SL-096-SA8N-SB-9.0-10.0	6287612	N	METHOD	1613B	III
13-May-2011	SL-094-SA8N-SB-4.0-5.0	6287608	N	METHOD	1613B	III
13-May-2011	SL-094-SA8N-SB-7.5-8.5	6287609	N	METHOD	1613B	III
13-May-2011	SL-095-SA8N-SB-4.0-5.0	6287610	N	METHOD	1613B	III
13-May-2011	SL-104-SA8N-SB-4.0-5.0	6287613	N	METHOD	1613B	III
13-May-2011	SL-104-SA8N-SB-9.0-10.0	6287614	N	METHOD	1613B	III
16-May-2011	SL-003-SA5DN-SB-0.5-1.5	6288962	N	METHOD	1613B	III
16-May-2011	SL-003-SA5DN-SB-8.0-9.0	6288963	N	METHOD	1613B	III
16-May-2011	SL-042-SA5A-SB-3.5-4.5	6288954	N	METHOD	1613B	III
16-May-2011	SL-042-SA5A-SB-3.5-4.5MS	6288955	MS	METHOD	1613B	III
16-May-2011	SL-042-SA5A-SB-3.5-4.5MSD	6288956	MSD	METHOD	1613B	III
16-May-2011	DUP-17-SA5A-QC-051611	6288957	FD	METHOD	1613B	III
16-May-2011	SL-004-SA5DN-SB-3.5-4.5	6288964	N	METHOD	1613B	III
16-May-2011	SL-004-SA5DN-SB-9.0-10.0	6288965	N	METHOD	1613B	III
16-May-2011	EB15-SA5A-SB-051611	6288959	EB	METHOD	1613B	III
16-May-2011	SL-002-SA5DN-SB-4.0-5.0	6288960	N	METHOD	1613B	III
16-May-2011	SL-002-SA5DN-SB-9.0-10.0	6288961	N	METHOD	1613B	III
16-May-2011	SL-167-SA5A-SB-1.0-2.0	6288958	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB15-SA5A-SB-051611 *Collected:* 5/16/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.17	J	0.640	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.21	J	0.288	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	1.01	J	0.346	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.449	J	0.367	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.477	J	0.239	MDL	10.7	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.644	JQ	0.393	MDL	10.7	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.609	J	0.231	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.749	J	0.372	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.577	JQ	0.246	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.430	JQ	0.311	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.168	J	0.164	MDL	10.7	PQL	pg/L	J	Z
2,3,4,6,7,8-HXCDF	0.879	JQ	0.218	MDL	10.7	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.720	J	0.142	MDL	10.7	PQL	pg/L	U	B
2,3,7,8-TCDD	0.482	JQ	0.279	MDL	2.14	PQL	pg/L	U	B
OCDD	5.95	JQ	0.500	MDL	21.4	PQL	pg/L	U	B
OCDF	0.932	JQ	0.586	MDL	21.4	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP-17-SA5A-QC-051611 *Collected:* 5/16/2011 11:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	24.2	B	0.0586	MDL	5.54	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	4.92	JB	0.0194	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	1.11	JB	0.0365	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.421	JB	0.0468	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.543	JB	0.0400	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	1.42	JB	0.0493	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.512	JB	0.0330	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.701	JB	0.0487	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.403	JB	0.0395	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.307	JBQ	0.0377	MDL	5.54	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.253	JB	0.0200	MDL	5.54	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP-17-SA5A-QC-051611 *Collected:* 5/16/2011 11:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.773	JB	0.0325	MDL	5.54	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.343	JBQ	0.0202	MDL	5.54	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.114	JB	0.0232	MDL	1.11	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.102	J	0.0383	MDL	1.11	PQL	ng/Kg	J	Z, FD
OCDF	10.9	JB	0.0356	MDL	11.1	PQL	ng/Kg	J	Z, FD

Sample ID: SL-002-SA5DN-SB-4.0-5.0 *Collected:* 5/16/2011 3:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.341	JB	0.0414	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.134	JBQ	0.0117	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0634	JBQ	0.0247	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0352	JB	0.0231	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.133	JB	0.0278	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0415	JBQ	0.0189	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.244	JBQ	0.0281	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.343	JB	0.0266	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0810	JBQ	0.0340	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0609	JBQ	0.0176	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0924	JBQ	0.0196	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0564	JBQ	0.0180	MDL	5.66	PQL	ng/Kg	U	B
OCDD	1.53	JB	0.0346	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.315	JBQ	0.0682	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-002-SA5DN-SB-9.0-10.0 *Collected:* 5/16/2011 3:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.280	JB	0.0269	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.111	JBQ	0.00826	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0403	JBQ	0.0158	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0526	JB	0.0143	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0314	JB	0.0181	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0350	JBQ	0.0115	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0544	JB	0.0181	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0501	JBQ	0.0154	MDL	5.55	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-002-SA5DN-SB-9.0-10.0 *Collected:* 5/16/2011 3:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0262	JBQ	0.0206	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0124	JBQ	0.0118	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0501	JBQ	0.0122	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0636	JBQ	0.0119	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0203	J	0.0192	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.77	JBQ	0.0231	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.263	JBQ	0.0352	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-003-SA5DN-SB-0.5-1.5 *Collected:* 5/16/2011 10:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.11	JB	0.0365	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.291	JB	0.0120	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.126	JB	0.0235	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0898	JB	0.0277	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.179	JBQ	0.0255	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.615	JB	0.0286	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.144	JB	0.0210	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.988	JB	0.0282	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.09	JB	0.0288	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.226	JBQ	0.0297	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.367	JB	0.0185	MDL	5.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.136	JB	0.0238	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.241	JBQ	0.0199	MDL	5.95	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.143	J	0.0409	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	0.704	JBQ	0.0421	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-003-SA5DN-SB-8.0-9.0 *Collected:* 5/16/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.377	JB	0.0275	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.194	JB	0.0102	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.110	JBQ	0.0159	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0831	JB	0.0229	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.133	JBQ	0.0187	MDL	5.55	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-003-SA5DN-SB-8.0-9.0 *Collected:* 5/16/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.108	JBQ	0.0228	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.110	JB	0.0166	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.101	JBQ	0.0227	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.194	JBQ	0.0179	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.163	JBQ	0.0236	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.203	JBQ	0.0124	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.131	JBQ	0.0162	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.184	JB	0.0130	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0860	JB	0.0179	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0652	JQ	0.0177	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.11	JBQ	0.0255	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.369	JB	0.0409	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-004-SA5DN-SB-3.5-4.5 *Collected:* 5/16/2011 12:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.658	JB	0.0316	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.205	JB	0.0109	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.105	JB	0.0255	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0813	JB	0.0219	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.135	JBQ	0.0237	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.563	JB	0.0226	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JB	0.0186	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.939	JB	0.0224	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.54	JB	0.0284	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.218	JBQ	0.0400	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.437	JBQ	0.0156	MDL	5.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.124	JB	0.0207	MDL	5.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.166	JBQ	0.0174	MDL	5.98	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0555	JBQ	0.0260	MDL	1.20	PQL	ng/Kg	U	B
OCDD	6.06	JB	0.0291	MDL	12.0	PQL	ng/Kg	J	Z
OCDF	0.373	JBQ	0.0501	MDL	12.0	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-004-SA5DN-SB-9.0-10.0** ***Collected:*** **5/16/2011 12:47:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.211	JB	0.0222	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.115	JBQ	0.00816	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0549	JBQ	0.0141	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0311	JBQ	0.0164	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0860	JBQ	0.0115	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0625	JBQ	0.0171	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0673	JB	0.0101	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0650	JBQ	0.0170	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0638	JBQ	0.0138	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.110	JB	0.0230	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0833	JBQ	0.0116	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0696	JB	0.0115	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0952	JB	0.0119	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0274	JBQ	0.0172	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0461	JQ	0.0181	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	0.602	JB	0.0218	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.212	JB	0.0321	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: **SL-042-SA5A-SB-3.5-4.5** ***Collected:*** **5/16/2011 11:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	12.6	B	0.0543	MDL	5.45	PQL	ng/Kg	J	Q, Q, FD
1,2,3,4,6,7,8-HPCDF	2.06	JB	0.0221	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.371	JB	0.0364	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.178	JB	0.0546	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.215	JB	0.0417	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.579	JB	0.0550	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.196	JB	0.0356	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.260	JB	0.0469	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.157	JB	0.0388	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.101	JBQ	0.0352	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0835	JBQ	0.0171	MDL	5.45	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.292	JB	0.0313	MDL	5.45	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.111	JB	0.0189	MDL	5.45	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-042-SA5A-SB-3.5-4.5 ***Collected:*** 5/16/2011 11:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0210	U	0.0210	MDL	1.09	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0432	J	0.0260	MDL	1.09	PQL	ng/Kg	J	Z, FD
OCDD	150	B	0.0451	MDL	10.9	PQL	ng/Kg	J	Q, Q
OCDF	4.68	JB	0.0519	MDL	10.9	PQL	ng/Kg	J	Z, FD

Sample ID: SL-094-SA8N-SB-4.0-5.0 ***Collected:*** 5/13/2011 10:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.590	JBQ	0.0452	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.256	JBQ	0.0159	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0900	JB	0.0220	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.105	JB	0.0358	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.584	JBQ	0.0372	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.112	JB	0.0305	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.02	JB	0.0309	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.47	JB	0.0257	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.205	JB	0.0488	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.313	JBQ	0.0215	MDL	5.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.121	JBQ	0.0242	MDL	5.95	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0319	JB	0.0213	MDL	1.19	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0606	J	0.0267	MDL	1.19	PQL	ng/Kg	J	Z
OCDD	2.12	JB	0.0446	MDL	11.9	PQL	ng/Kg	J	Z
OCDF	0.390	JBQ	0.0661	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-094-SA8N-SB-7.5-8.5 ***Collected:*** 5/13/2011 10:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.314	JBQ	0.0340	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.167	JB	0.0131	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0740	JBQ	0.0193	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0515	JBQ	0.0196	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0441	JBQ	0.0258	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0485	JBQ	0.0174	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0648	JB	0.0229	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0750	JB	0.0198	MDL	5.52	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-094-SA8N-SB-7.5-8.5 *Collected:* 5/13/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0187	JB	0.0168	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0702	JBQ	0.0156	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0808	JB	0.0164	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0195	JQ	0.0189	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.894	JB	0.0399	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.201	JB	0.0547	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-095-SA8N-SB-4.0-5.0 *Collected:* 5/13/2011 11:43:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.257	JB	0.0349	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.135	JB	0.0116	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0866	JBQ	0.0193	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0474	JBQ	0.0209	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0425	JB	0.0158	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0650	JBQ	0.0214	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0318	JBQ	0.0127	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0791	JB	0.0202	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.126	JB	0.0159	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0273	JBQ	0.0258	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0459	JB	0.0135	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0557	JBQ	0.0141	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0672	JBQ	0.0138	MDL	5.65	PQL	ng/Kg	U	B
OCDD	0.579	JB	0.0355	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.285	JB	0.0499	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-096-SA8N-SB-4.0-5.0 *Collected:* 5/13/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.342	JB	0.0366	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.161	JB	0.0126	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0677	JB	0.0219	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0498	JBQ	0.0267	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0645	JBQ	0.0220	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.208	JB	0.0277	MDL	5.83	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-096-SA8N-SB-4.0-5.0 ***Collected:*** 5/13/2011 9:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0424	JBQ	0.0182	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.375	JB	0.0272	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.585	JBQ	0.0247	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0431	JB	0.0293	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0871	JB	0.0169	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0839	JBQ	0.0197	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0521	JB	0.0170	MDL	5.83	PQL	ng/Kg	U	B
OCDD	0.767	JB	0.0386	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.215	JBQ	0.0542	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-096-SA8N-SB-9.0-10.0 ***Collected:*** 5/13/2011 9:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.321	JB	0.0384	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.168	JB	0.0137	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0771	JB	0.0227	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0859	JB	0.0176	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.286	JB	0.0351	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0695	JB	0.0163	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.504	JB	0.0361	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.244	JBQ	0.0189	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0984	JBQ	0.0287	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0656	JB	0.0166	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0614	JBQ	0.0168	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0580	JBQ	0.0167	MDL	5.72	PQL	ng/Kg	U	B
OCDD	0.886	JB	0.0445	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.304	JB	0.0546	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-104-SA8N-SB-4.0-5.0 ***Collected:*** 5/13/2011 2:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.337	JB	0.0412	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.216	JB	0.0119	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.110	JBQ	0.0227	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0591	JBQ	0.0265	MDL	5.54	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-104-SA8N-SB-4.0-5.0** ***Collected:*** **5/13/2011 2:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.102	JBQ	0.0227	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.111	JB	0.0269	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0846	JB	0.0200	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0804	JBQ	0.0268	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.134	JBQ	0.0247	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0988	JBQ	0.0303	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0761	JBQ	0.0156	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.115	JBQ	0.0209	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.109	JB	0.0163	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0239	JB	0.0203	MDL	1.11	PQL	ng/Kg	U	B
OCDD	1.20	JB	0.0457	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.304	JB	0.0643	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: **SL-104-SA8N-SB-9.0-10.0** ***Collected:*** **5/13/2011 3:06:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.257	JB	0.0234	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.231	JB	0.00876	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0827	JB	0.0133	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.104	JBQ	0.0200	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.131	JB	0.0174	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0850	JBQ	0.0205	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.131	JB	0.0154	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0994	JB	0.0191	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.118	JB	0.0149	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.170	JB	0.0129	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.145	JBQ	0.0140	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.182	JB	0.0128	MDL	5.81	PQL	ng/Kg	U	B
OCDD	0.651	JB	0.0192	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.288	JB	0.0276	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: **SL-167-SA5A-SB-1.0-2.0** ***Collected:*** **5/16/2011 4:17:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.70	JB	0.0227	MDL	5.30	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-167-SA5A-SB-1.0-2.0** ***Collected:*** **5/16/2011 4:17:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.172	JBQ	0.0361	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.337	JB	0.0314	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.324	JB	0.0339	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.128	JB	0.0272	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.156	JB	0.0312	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.104	JBQ	0.0311	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0568	JBQ	0.0237	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0854	JBQ	0.0193	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.126	JBQ	0.0280	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0833	JB	0.0188	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0278	JBQ	0.0195	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0288	JQ	0.0250	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	5.40	JB	0.0342	MDL	10.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX081

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1370B371148	5/20/2011 11:48:00 AM	1,2,3,4,6,7,8-HPCDD	1.77 pg/L	EB15-SA5A-SB-051611
		1,2,3,4,6,7,8-HPCDF	1.41 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.428 pg/L	
		1,2,3,4,7,8-HxCDD	0.220 pg/L	
		1,2,3,4,7,8-HXCDF	0.400 pg/L	
		1,2,3,6,7,8-HXCDD	0.252 pg/L	
		1,2,3,6,7,8-HXCDF	0.354 pg/L	
		1,2,3,7,8,9-HXCDD	0.381 pg/L	
		1,2,3,7,8,9-HXCDF	0.396 pg/L	
		1,2,3,7,8-PECDD	0.307 pg/L	
		2,3,4,6,7,8-HXCDF	0.399 pg/L	
		2,3,4,7,8-PECDF	0.588 pg/L	
		2,3,7,8-TCDD	0.128 pg/L	
		2,3,7,8-TCDF	0.106 pg/L	
		OCDD	3.80 pg/L	
		OCDF	1.48 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB15-SA5A-SB-051611(RES)	1,2,3,4,6,7,8-HPCDD	3.17 pg/L	3.17U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,6,7,8-HPCDF	2.21 pg/L	2.21U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,7,8,9-HPCDF	1.01 pg/L	1.01U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,7,8-HxCDD	0.449 pg/L	0.449U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,7,8-HXCDF	0.477 pg/L	0.477U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,6,7,8-HXCDD	0.644 pg/L	0.644U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,6,7,8-HXCDF	0.609 pg/L	0.609U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,7,8,9-HXCDD	0.749 pg/L	0.749U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,7,8,9-HXCDF	0.577 pg/L	0.577U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,7,8-PECDD	0.430 pg/L	0.430U pg/L
EB15-SA5A-SB-051611(RES)	2,3,4,6,7,8-HXCDF	0.879 pg/L	0.879U pg/L
EB15-SA5A-SB-051611(RES)	2,3,4,7,8-PECDF	0.720 pg/L	0.720U pg/L
EB15-SA5A-SB-051611(RES)	2,3,7,8-TCDD	0.482 pg/L	0.482U pg/L
EB15-SA5A-SB-051611(RES)	OCDD	5.95 pg/L	5.95U pg/L
EB15-SA5A-SB-051611(RES)	OCDF	0.932 pg/L	0.932U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1370B371826	5/19/2011 6:26:00 PM	1,2,3,4,6,7,8-HPCDD	0.254 ng/Kg	SL-094-SA8N-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.188 ng/Kg	SL-094-SA8N-SB-7.5-8.5
		1,2,3,4,7,8,9-HPCDF	0.106 ng/Kg	SL-095-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0292 ng/Kg	SL-096-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0716 ng/Kg	SL-096-SA8N-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0513 ng/Kg	SL-104-SA8N-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0503 ng/Kg	SL-104-SA8N-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0377 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0917 ng/Kg	
		1,2,3,7,8-PECDD	0.0632 ng/Kg	
		1,2,3,7,8-PECDF	0.0253 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0914 ng/Kg	
		2,3,4,7,8-PECDF	0.0780 ng/Kg	
		2,3,7,8-TCDD	0.0449 ng/Kg	
		OCDD	0.399 ng/Kg	
		OCDF	0.292 ng/Kg	
BLK1400B371308	5/23/2011 1:08:00 PM	1,2,3,4,6,7,8-HPCDD	0.220 ng/Kg	DUP-17-SA5A-QC-051611
		1,2,3,4,6,7,8-HPCDF	0.126 ng/Kg	SL-002-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.125 ng/Kg	SL-002-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0299 ng/Kg	SL-003-SA5DN-SB-0.5-1.5
		1,2,3,4,7,8-HXCDF	0.0532 ng/Kg	SL-003-SA5DN-SB-8.0-9.0
		1,2,3,6,7,8-HXCDD	0.0525 ng/Kg	SL-004-SA5DN-SB-3.5-4.5
		1,2,3,6,7,8-HXCDF	0.0551 ng/Kg	SL-004-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0535 ng/Kg	SL-042-SA5A-SB-3.5-4.5
		1,2,3,7,8,9-HXCDF	0.0750 ng/Kg	SL-167-SA5A-SB-1.0-2.0
		1,2,3,7,8-PECDD	0.0656 ng/Kg	
		1,2,3,7,8-PECDF	0.0647 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0526 ng/Kg	
		2,3,4,7,8-PECDF	0.0777 ng/Kg	
		2,3,7,8-TCDD	0.0352 ng/Kg	
		OCDD	0.489 ng/Kg	
		OCDF	0.335 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-17-SA5A-QC-051611(RES)	1,2,3,7,8-PECDD	0.307 ng/Kg	0.307U ng/Kg
DUP-17-SA5A-QC-051611(RES)	1,2,3,7,8-PECDF	0.253 ng/Kg	0.253U ng/Kg
DUP-17-SA5A-QC-051611(RES)	2,3,4,7,8-PECDF	0.343 ng/Kg	0.343U ng/Kg
DUP-17-SA5A-QC-051611(RES)	2,3,7,8-TCDD	0.114 ng/Kg	0.114U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.341 ng/Kg	0.341U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0634 ng/Kg	0.0634U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0352 ng/Kg	0.0352U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.133 ng/Kg	0.133U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.244 ng/Kg	0.244U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.343 ng/Kg	0.343U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0810 ng/Kg	0.0810U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0609 ng/Kg	0.0609U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0564 ng/Kg	0.0564U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-002-SA5DN-SB-4.0-5.0(RES)	OCDD	1.53 ng/Kg	1.53U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	OCDF	0.315 ng/Kg	0.315U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.280 ng/Kg	0.280U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0403 ng/Kg	0.0403U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0350 ng/Kg	0.0350U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0544 ng/Kg	0.0544U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0501 ng/Kg	0.0501U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0262 ng/Kg	0.0262U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0124 ng/Kg	0.0124U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0501 ng/Kg	0.0501U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	OCDD	1.77 ng/Kg	1.77U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	OCDF	0.263 ng/Kg	0.263U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDF	0.291 ng/Kg	0.291U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,7,8,9-HPCDF	0.126 ng/Kg	0.126U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,7,8-HxCDD	0.0898 ng/Kg	0.0898U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,7,8-HXCDF	0.179 ng/Kg	0.179U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,6,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,7,8-PECDD	0.226 ng/Kg	0.226U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	2,3,4,6,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	2,3,4,7,8-PECDF	0.241 ng/Kg	0.241U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	OCDF	0.704 ng/Kg	0.704U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.377 ng/Kg	0.377U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.194 ng/Kg	0.194U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.110 ng/Kg	0.110U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0831 ng/Kg	0.0831U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.101 ng/Kg	0.101U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDF	0.194 ng/Kg	0.194U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDD	0.163 ng/Kg	0.163U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.203 ng/Kg	0.203U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-003-SA5DN-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.184 ng/Kg	0.184U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	2,3,7,8-TCDD	0.0860 ng/Kg	0.0860U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	OCDD	1.11 ng/Kg	1.11U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	OCDF	0.369 ng/Kg	0.369U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.658 ng/Kg	0.658U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.205 ng/Kg	0.205U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0813 ng/Kg	0.0813U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.218 ng/Kg	0.218U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.166 ng/Kg	0.166U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	2,3,7,8-TCDD	0.0555 ng/Kg	0.0555U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	OCDF	0.373 ng/Kg	0.373U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.211 ng/Kg	0.211U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0549 ng/Kg	0.0549U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0311 ng/Kg	0.0311U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0860 ng/Kg	0.0860U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0625 ng/Kg	0.0625U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0650 ng/Kg	0.0650U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0638 ng/Kg	0.0638U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.110 ng/Kg	0.110U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0696 ng/Kg	0.0696U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0952 ng/Kg	0.0952U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0274 ng/Kg	0.0274U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	OCDD	0.602 ng/Kg	0.602U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	OCDF	0.212 ng/Kg	0.212U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.371 ng/Kg	0.371U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.215 ng/Kg	0.215U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.260 ng/Kg	0.260U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.101 ng/Kg	0.101U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0835 ng/Kg	0.0835U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.590 ng/Kg	0.590U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.256 ng/Kg	0.256U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0900 ng/Kg	0.0900U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.205 ng/Kg	0.205U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0319 ng/Kg	0.0319U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	OCDF	0.390 ng/Kg	0.390U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.314 ng/Kg	0.314U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.167 ng/Kg	0.167U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0740 ng/Kg	0.0740U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,7,8-HXCDF	0.0515 ng/Kg	0.0515U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.0441 ng/Kg	0.0441U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0648 ng/Kg	0.0648U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.0750 ng/Kg	0.0750U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.0187 ng/Kg	0.0187U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0808 ng/Kg	0.0808U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	OCDD	0.894 ng/Kg	0.894U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.257 ng/Kg	0.257U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.135 ng/Kg	0.135U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0866 ng/Kg	0.0866U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0474 ng/Kg	0.0474U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0425 ng/Kg	0.0425U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0650 ng/Kg	0.0650U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0318 ng/Kg	0.0318U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0791 ng/Kg	0.0791U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0273 ng/Kg	0.0273U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0557 ng/Kg	0.0557U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0672 ng/Kg	0.0672U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-095-SA8N-SB-4.0-5.0(RES)	OCDD	0.579 ng/Kg	0.579U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	OCDF	0.285 ng/Kg	0.285U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.342 ng/Kg	0.342U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.161 ng/Kg	0.161U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0677 ng/Kg	0.0677U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0498 ng/Kg	0.0498U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0645 ng/Kg	0.0645U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.208 ng/Kg	0.208U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0424 ng/Kg	0.0424U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0431 ng/Kg	0.0431U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0871 ng/Kg	0.0871U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	OCDD	0.767 ng/Kg	0.767U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	OCDF	0.215 ng/Kg	0.215U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.321 ng/Kg	0.321U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0771 ng/Kg	0.0771U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0859 ng/Kg	0.0859U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0695 ng/Kg	0.0695U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.244 ng/Kg	0.244U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0984 ng/Kg	0.0984U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0656 ng/Kg	0.0656U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0614 ng/Kg	0.0614U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	OCDD	0.886 ng/Kg	0.886U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	OCDF	0.304 ng/Kg	0.304U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.337 ng/Kg	0.337U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.216 ng/Kg	0.216U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.110 ng/Kg	0.110U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0591 ng/Kg	0.0591U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.111 ng/Kg	0.111U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0804 ng/Kg	0.0804U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0988 ng/Kg	0.0988U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0761 ng/Kg	0.0761U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.109 ng/Kg	0.109U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0239 ng/Kg	0.0239U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	OCDD	1.20 ng/Kg	1.20U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	OCDF	0.304 ng/Kg	0.304U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.257 ng/Kg	0.257U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.231 ng/Kg	0.231U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0827 ng/Kg	0.0827U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.104 ng/Kg	0.104U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0850 ng/Kg	0.0850U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0994 ng/Kg	0.0994U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.182 ng/Kg	0.182U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	OCDD	0.651 ng/Kg	0.651U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	OCDF	0.288 ng/Kg	0.288U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.172 ng/Kg	0.172U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.156 ng/Kg	0.156U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.0568 ng/Kg	0.0568U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8-PECDF	0.0854 ng/Kg	0.0854U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	2,3,7,8-TCDD	0.0278 ng/Kg	0.0278U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-042-SA5A-SB-3.5-4.5MSD	1,2,3,4,6,7,8-HPCDD	-	147	40.00-135.00	39 (20.00)	1,2,3,4,6,7,8-HPCDD	J (all detects)
(SL-042-SA5A-SB-3.5-4.5)	OCDD	-	343	40.00-135.00	86 (20.00)	OCDD	

Field Duplicate RPD Report

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: PrepDX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA5A-SB-3.5-4.5	DUP-17-SA5A-QC-051611			
MOISTURE	12.2	11.9	2		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA5A-SB-3.5-4.5	DUP-17-SA5A-QC-051611			
OCDD	150	247	49	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDD	12.6	24.2	63	50.00	
1,2,3,4,6,7,8-HPCDF	2.06	4.92	82	50.00	
1,2,3,4,7,8,9-HPCDF	0.371	1.11	100	50.00	
1,2,3,4,7,8-HxCDD	0.178	0.421	81	50.00	
1,2,3,4,7,8-HXCDF	0.215	0.543	87	50.00	
1,2,3,6,7,8-HXCDD	0.579	1.42	84	50.00	
1,2,3,6,7,8-HXCDF	0.196	0.512	89	50.00	
1,2,3,7,8,9-HXCDD	0.260	0.701	92	50.00	J(all detects)
1,2,3,7,8,9-HXCDF	0.157	0.403	88	50.00	UJ(all non-detects)
1,2,3,7,8-PECDD	0.101	0.307	101	50.00	
1,2,3,7,8-PECDF	0.0835	0.253	101	50.00	
2,3,4,6,7,8-HXCDF	0.292	0.773	90	50.00	
2,3,4,7,8-PECDF	0.111	0.343	102	50.00	
2,3,7,8-TCDD	1.09 U	0.114	200	50.00	
2,3,7,8-TCDF	0.0432	0.102	81	50.00	
OCDF	4.68	10.9	80	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5A-SB-051611	1,2,3,4,6,7,8-HPCDD	J	3.17	10.7	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	J	2.21	10.7	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	J	1.01	10.7	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	J	0.449	10.7	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	J	0.477	10.7	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JQ	0.644	10.7	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	J	0.609	10.7	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	J	0.749	10.7	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.577	10.7	PQL	pg/L	
	1,2,3,7,8-PECDD	JQ	0.430	10.7	PQL	pg/L	
	1,2,3,7,8-PECDF	J	0.168	10.7	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JQ	0.879	10.7	PQL	pg/L	
	2,3,4,7,8-PECDF	J	0.720	10.7	PQL	pg/L	
	2,3,7,8-TCDD	JQ	0.482	2.14	PQL	pg/L	
	OCDD	JQ	5.95	21.4	PQL	pg/L	
	OCDF	JQ	0.932	21.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-17-SA5A-QC-051611	1,2,3,4,6,7,8-HPCDF	JB	4.92	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	1.11	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.421	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.543	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.42	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.512	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.701	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.403	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.307	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.253	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.773	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.343	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.114	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.102	1.11	PQL	ng/Kg	
	OCDF	JB	10.9	11.1	PQL	ng/Kg	
SL-002-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.341	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.134	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0634	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0352	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.133	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0415	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.244	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.343	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0810	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0609	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0924	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0564	5.66	PQL	ng/Kg	
	OCDD	JB	1.53	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.315	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.280	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.111	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0403	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0526	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0314	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0350	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0544	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0501	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0262	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0124	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0501	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0636	5.55	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0203	1.11	PQL	ng/Kg	
	OCDD	JBQ	1.77	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.263	11.1	PQL	ng/Kg	
SL-003-SA5DN-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JB	1.11	5.95	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.291	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.126	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0898	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.179	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.615	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.144	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.988	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.09	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.226	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.367	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.136	5.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.241	5.95	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.143	1.19	PQL	ng/Kg	
	OCDF	JBQ	0.704	11.9	PQL	ng/Kg	
SL-003-SA5DN-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.377	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.194	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.110	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0831	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.133	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.108	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.110	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.101	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.194	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.163	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.203	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.131	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.184	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0860	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0652	1.11	PQL	ng/Kg	
	OCDD	JBQ	1.11	11.1	PQL	ng/Kg	
	OCDF	JB	0.369	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA5DN-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.658	5.98	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.205	5.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.105	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0813	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.135	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.563	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.125	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.939	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.54	5.98	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.218	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.437	5.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.124	5.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.166	5.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0555	1.20	PQL	ng/Kg	
	OCDD	JB	6.06	12.0	PQL	ng/Kg	
	OCDF	JBQ	0.373	12.0	PQL	ng/Kg	
SL-004-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.211	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.115	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0549	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0311	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0860	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0625	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0673	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0650	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0638	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.110	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0833	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0696	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0952	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0274	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0461	1.12	PQL	ng/Kg	
	OCDD	JB	0.602	11.2	PQL	ng/Kg	
	OCDF	JB	0.212	11.2	PQL	ng/Kg	
SL-042-SA5A-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDF	JB	2.06	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.371	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.178	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.215	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.579	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.196	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.260	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.157	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.101	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0835	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.292	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.111	5.45	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0432	1.09	PQL	ng/Kg	
	OCDF	JB	4.68	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-094-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.590	5.95	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.256	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0900	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.105	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.584	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.112	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.02	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.47	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.205	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.313	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.121	5.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0319	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0606	1.19	PQL	ng/Kg	
	OCDD	JB	2.12	11.9	PQL	ng/Kg	
	OCDF	JBQ	0.390	11.9	PQL	ng/Kg	
SL-094-SA8N-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.314	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.167	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0740	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0515	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0441	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0485	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0648	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0750	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.0187	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0702	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0808	5.52	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0195	1.10	PQL	ng/Kg	
	OCDD	JB	0.894	11.0	PQL	ng/Kg	
	OCDF	JB	0.201	11.0	PQL	ng/Kg	
SL-095-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.257	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.135	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0866	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0474	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0425	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0650	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0318	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0791	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.126	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0273	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0459	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0557	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0672	5.65	PQL	ng/Kg	
	OCDD	JB	0.579	11.3	PQL	ng/Kg	
	OCDF	JB	0.285	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-096-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.342	5.83	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.161	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0677	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0498	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0645	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.208	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0424	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.375	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.585	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0431	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0871	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0839	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0521	5.83	PQL	ng/Kg	
	OCDD	JB	0.767	11.7	PQL	ng/Kg	
	OCDF	JBQ	0.215	11.7	PQL	ng/Kg	
SL-096-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.321	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.168	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0771	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0859	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.286	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0695	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.504	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.244	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0984	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0656	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0614	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0580	5.72	PQL	ng/Kg	
	OCDD	JB	0.886	11.4	PQL	ng/Kg	
	OCDF	JB	0.304	11.4	PQL	ng/Kg	
SL-104-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.337	5.54	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.216	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.110	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0591	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.102	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.111	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0846	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0804	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.134	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0988	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0761	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.115	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.109	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0239	1.11	PQL	ng/Kg	
	OCDD	JB	1.20	11.1	PQL	ng/Kg	
	OCDF	JB	0.304	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX081 **Laboratory: LL**

EDD Filename: DX081_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-104-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.257	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.231	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0827	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.104	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.131	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0850	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.131	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0994	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.118	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.170	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.145	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.182	5.81	PQL	ng/Kg	
	OCDD	JB	0.651	11.6	PQL	ng/Kg	
	OCDF	JB	0.288	11.6	PQL	ng/Kg	
SL-167-SA5A-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDF	JB	1.70	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.172	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.337	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.324	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.128	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.156	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.104	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0568	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0854	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.126	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0833	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0278	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0288	1.06	PQL	ng/Kg	
	OCDF	JB	5.40	10.6	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX082

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-May-2011	SL-254-SA5A-SS-0.0-0.5	6290784	N	METHOD	1613B	III
17-May-2011	SL-072-SA5DN-SS-0-0.5	6290788	N	METHOD	1613B	III
17-May-2011	SL-072-SA5DN-SS-0-0.5MS	6290789	MS	METHOD	1613B	III
17-May-2011	SL-072-SA5DN-SS-0-0.5MSD	6290790	MSD	METHOD	1613B	III
17-May-2011	DUP-01-SA5DN-QC-051711	6290785	FD	METHOD	1613B	III
17-May-2011	SL-075-SA5DN-SS-0.0-0.5	6290792	N	METHOD	1613B	III
17-May-2011	SL-076-SA5DN-SS-0.0-0.5	6290793	N	METHOD	1613B	III
17-May-2011	SL-074-SA5DN-SS-0.0-0.5	6290791	N	METHOD	1613B	III
17-May-2011	SL-067-SA5DN-SS-0.0-0.5	6290787	N	METHOD	1613B	III
17-May-2011	SL-079-SA5DN-SS-0.0-0.5	6290794	N	METHOD	1613B	III
17-May-2011	SL-080-SA5DN-SS-0.0-0.5	6290795	N	METHOD	1613B	III
17-May-2011	EB01-SA5DN-SS-051711	6290801	EB	METHOD	1613B	III
17-May-2011	SL-082-SA5DN-SS-0.0-0.5	6290797	N	METHOD	1613B	III
17-May-2011	SL-081-SA5DN-SS-0.0-0.5	6290796	N	METHOD	1613B	III
17-May-2011	SL-084-SA5DN-SS-0.0-0.5	6290799	N	METHOD	1613B	III
17-May-2011	SL-083-SA5DN-SS-0.0-0.5	6290798	N	METHOD	1613B	III
17-May-2011	SL-206-SA5DN-SS-0.0-0.5	6290800	N	METHOD	1613B	III
17-May-2011	SL-066-SA5DN-SS-0.0-0.5	6290786	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB01-SA5DN-SS-051711 *Collected:* 5/17/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.44	JB	0.263	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.41	JBQ	0.133	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.618	JB	0.159	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.324	JBQ	0.213	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.540	JBQ	0.200	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.467	JBQ	0.220	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.439	JBQ	0.187	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.837	JBQ	0.193	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.380	JBQ	0.182	MDL	10.5	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.556	JB	0.180	MDL	10.5	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.717	JBQ	0.156	MDL	10.5	PQL	pg/L	U	B
2,3,7,8-TCDD	0.390	JBQ	0.363	MDL	2.09	PQL	pg/L	U	B
OCDD	4.71	JBQ	0.298	MDL	20.9	PQL	pg/L	U	B
OCDF	1.38	JBQ	0.356	MDL	20.9	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP-01-SA5DN-QC-051711 *Collected:* 5/17/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.55	JB	0.0606	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.29	JB	0.0593	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.00	JB	0.0612	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.96	JB	0.0600	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.34	JB	0.0548	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.53	JB	0.0591	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.08	JB	0.0525	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.995	JB	0.0439	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.711	JBQ	0.0377	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.21	JB	0.0465	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.965	JB	0.0365	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.112	JQ	0.0204	MDL	1.09	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.249	J	0.0724	MDL	1.09	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-066-SA5DN-SS-0.0-0.5 **Collected:** 5/17/2011 3:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.32	JB	0.0514	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.01	JB	0.0540	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.44	JB	0.0487	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.72	JB	0.0434	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.39	JB	0.0410	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.24	JBQ	0.0452	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.553	JB	0.0384	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.74	JB	0.0345	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.13	JBQ	0.0372	MDL	5.35	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.290	JQ	0.0215	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.624	J	0.0689	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-067-SA5DN-SS-0.0-0.5 **Collected:** 5/17/2011 10:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.79	JB	0.0604	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.72	JB	0.0543	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.08	JB	0.0710	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.28	JB	0.0594	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.37	JB	0.0518	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.76	JB	0.0498	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.03	JB	0.0558	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.726	JB	0.0358	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.38	JB	0.0403	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.997	JB	0.0360	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.296	JQ	0.0211	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.758	J	0.0754	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-072-SA5DN-SS-0-0.5 **Collected:** 5/17/2011 8:40:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	112	B	0.160	MDL	5.51	PQL	ng/Kg	J	Q
1,2,3,4,7,8,9-HPCDF	1.10	JB	0.0726	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.42	JB	0.0818	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.52	JB	0.0902	MDL	5.51	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-072-SA5DN-SS-0-0.5 ***Collected:*** 5/17/2011 8:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	4.53	JB	0.0853	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.39	JB	0.0792	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.36	JB	0.0812	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.855	JB	0.0570	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	1.23	JB	0.0543	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.662	JB	0.0417	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.02	JB	0.0482	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.11	JB	0.0396	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.242	J	0.0269	MDL	1.10	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.483	J	0.0680	MDL	1.10	PQL	ng/Kg	J	Z, FD

Sample ID: SL-074-SA5DN-SS-0.0-0.5 ***Collected:*** 5/17/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.67	JB	0.0512	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.04	JB	0.0572	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.62	JB	0.0534	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.05	JB	0.0605	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.24	JB	0.0428	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.92	JB	0.0600	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.14	JB	0.0415	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.911	JB	0.0436	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.886	JBQ	0.0270	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.37	JB	0.0370	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.971	JB	0.0245	MDL	5.33	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.221	J	0.0215	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.362	JQ	0.0438	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-075-SA5DN-SS-0.0-0.5 ***Collected:*** 5/17/2011 9:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.728	JB	0.0412	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.336	JB	0.0535	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.14	JB	0.101	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.25	JB	0.0548	MDL	5.95	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-075-SA5DN-SS-0.0-0.5** ***Collected:*** **5/17/2011 9:10:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.797	JB	0.0834	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.96	JB	0.0499	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.52	JB	0.0413	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.320	JBQ	0.0396	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.368	JB	0.0344	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.598	JB	0.0350	MDL	5.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.887	JBQ	0.0338	MDL	5.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0396	JQ	0.0231	MDL	1.19	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.221	JQ	0.0544	MDL	1.19	PQL	ng/Kg	J	Z

Sample ID: **SL-076-SA5DN-SS-0.0-0.5** ***Collected:*** **5/17/2011 9:35:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.06	JB	0.0533	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.66	JB	0.0719	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.11	JB	0.0547	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.23	JB	0.0768	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.682	JB	0.0525	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.12	JB	0.0719	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.23	JB	0.0481	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.953	JB	0.0569	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.460	JB	0.0315	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.753	JB	0.0457	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.729	JB	0.0303	MDL	5.38	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.258	JBQ	0.0234	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.262	JBQ	0.0612	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: **SL-079-SA5DN-SS-0.0-0.5** ***Collected:*** **5/17/2011 10:45:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.65	JB	0.0448	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.77	JB	0.0571	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.83	JB	0.0927	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.45	JB	0.0604	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.47	JB	0.0810	MDL	5.51	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-079-SA5DN-SS-0.0-0.5** ***Collected:*** **5/17/2011 10:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	4.37	JB	0.0531	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.55	JB	0.0382	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.992	JB	0.0396	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.433	JB	0.0311	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.16	JB	0.0315	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.684	JB	0.0287	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.188	JQ	0.0224	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.325	JQ	0.0544	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: **SL-080-SA5DN-SS-0.0-0.5** ***Collected:*** **5/17/2011 11:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.23	JB	0.0634	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.02	JB	0.0972	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.40	JB	0.0599	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.41	JB	0.103	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.819	JB	0.0568	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.94	JB	0.0996	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.46	JB	0.0614	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.31	JB	0.0663	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.940	JB	0.0416	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.876	JB	0.0520	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.746	JB	0.0402	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.261	JBQ	0.0289	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.188	JB	0.0949	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: **SL-081-SA5DN-SS-0.0-0.5** ***Collected:*** **5/17/2011 1:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.761	JB	0.0358	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.00	JB	0.0437	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.900	JB	0.0423	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.03	JB	0.0436	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.610	JB	0.0385	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.53	JB	0.0426	MDL	5.27	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-081-SA5DN-SS-0.0-0.5 *Collected:* 5/17/2011 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	1.04	JB	0.0341	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.541	JBQ	0.0361	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.267	JBQ	0.0271	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.663	JB	0.0290	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.660	JB	0.0268	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.233	J	0.0222	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-082-SA5DN-SS-0.0-0.5 *Collected:* 5/17/2011 1:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.722	JBQ	0.0367	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.63	JB	0.0495	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.07	JB	0.0670	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.18	JB	0.0508	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.565	JB	0.0562	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.20	JB	0.0450	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.16	JB	0.0427	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.935	JB	0.0411	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.327	JB	0.0400	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.556	JB	0.0326	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.478	JB	0.0387	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.143	JQ	0.0196	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.306	J	0.0735	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: SL-083-SA5DN-SS-0.0-0.5 *Collected:* 5/17/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.03	JB	0.0562	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.38	JB	0.0677	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.10	JB	0.0585	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.660	JB	0.0554	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.07	JB	0.0571	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.95	JB	0.0707	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.359	JB	0.0276	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.781	JB	0.0525	MDL	5.43	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory:** LL

EDD Filename: PrepDX082_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-083-SA5DN-SS-0.0-0.5 ***Collected:*** 5/17/2011 2:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.560	JBQ	0.0264	MDL	5.43	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.360	JB	0.0200	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.261	JBQ	0.0572	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-084-SA5DN-SS-0.0-0.5 ***Collected:*** 5/17/2011 1:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.909	JB	0.0422	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.68	JB	0.0536	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.29	JB	0.0788	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.892	JB	0.0670	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.00	JB	0.0339	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.72	JB	0.0430	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.520	JB	0.0329	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.761	JB	0.0327	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.896	JB	0.0304	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.383	J	0.0275	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.285	J	0.0511	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-206-SA5DN-SS-0.0-0.5 ***Collected:*** 5/17/2011 2:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.860	JB	0.0469	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.69	JB	0.0623	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.40	JB	0.0789	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.890	JB	0.0656	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.05	JB	0.0413	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.15	JB	0.0566	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.450	JB	0.0255	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.823	JB	0.0322	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.647	JB	0.0252	MDL	5.61	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.455	J	0.0278	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.320	J	0.0474	MDL	1.12	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-254-SA5A-SS-0.0-0.5 ***Collected:*** 5/16/2011 5:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.36	JB	0.0157	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.230	JBQ	0.0220	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.281	JBQ	0.0378	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.642	JB	0.0373	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.707	JB	0.0389	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.221	JB	0.0330	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.767	JB	0.0383	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.276	JB	0.0367	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.199	JB	0.0340	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.148	JB	0.0323	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.332	JB	0.0330	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.651	JB	0.0312	MDL	5.12	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.217	J	0.0206	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.219	JQ	0.0539	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	7.17	JB	0.0361	MDL	10.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX082

Method Blank Outlier Report

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: DX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1400B370746	5/25/2011 7:46:00 AM	1,2,3,4,6,7,8-HPCDD	2.50 pg/L	EB01-SA5DN-SS-051711
		1,2,3,4,6,7,8-HPCDF	1.49 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.992 pg/L	
		1,2,3,4,7,8-HxCDD	0.648 pg/L	
		1,2,3,4,7,8-HXCDF	0.579 pg/L	
		1,2,3,6,7,8-HXCDD	0.598 pg/L	
		1,2,3,6,7,8-HXCDF	0.716 pg/L	
		1,2,3,7,8,9-HXCDD	0.427 pg/L	
		1,2,3,7,8,9-HXCDF	1.14 pg/L	
		1,2,3,7,8-PECDD	1.03 pg/L	
		1,2,3,7,8-PECDF	0.573 pg/L	
		2,3,4,6,7,8-HXCDF	0.697 pg/L	
		2,3,4,7,8-PECDF	0.830 pg/L	
		2,3,7,8-TCDD	0.410 pg/L	
		OCDD	6.14 pg/L	
		OCDF	3.26 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB01-SA5DN-SS-051711(RES)	1,2,3,4,6,7,8-HPCDD	2.44 pg/L	2.44U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,4,6,7,8-HPCDF	1.41 pg/L	1.41U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,4,7,8,9-HPCDF	0.618 pg/L	0.618U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,4,7,8-HxCDD	0.324 pg/L	0.324U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,4,7,8-HXCDF	0.540 pg/L	0.540U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,6,7,8-HXCDD	0.467 pg/L	0.467U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,6,7,8-HXCDF	0.439 pg/L	0.439U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,7,8,9-HXCDF	0.837 pg/L	0.837U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,7,8-PECDF	0.380 pg/L	0.380U pg/L
EB01-SA5DN-SS-051711(RES)	2,3,4,6,7,8-HXCDF	0.556 pg/L	0.556U pg/L
EB01-SA5DN-SS-051711(RES)	2,3,4,7,8-PECDF	0.717 pg/L	0.717U pg/L
EB01-SA5DN-SS-051711(RES)	2,3,7,8-TCDD	0.390 pg/L	0.390U pg/L
EB01-SA5DN-SS-051711(RES)	OCDD	4.71 pg/L	4.71U pg/L
EB01-SA5DN-SS-051711(RES)	OCDF	1.38 pg/L	1.38U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: DX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1450B370422	5/27/2011 4:22:00 AM	1,2,3,4,6,7,8-HPCDD	0.283 ng/Kg	DUP-01-SA5DN-QC-051711
		1,2,3,4,6,7,8-HPCDF	0.138 ng/Kg	SL-066-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.147 ng/Kg	SL-067-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0482 ng/Kg	SL-072-SA5DN-SS-0-0.5
		1,2,3,4,7,8-HXCDF	0.0751 ng/Kg	SL-074-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0877 ng/Kg	SL-075-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0777 ng/Kg	SL-079-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0784 ng/Kg	SL-081-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.171 ng/Kg	SL-082-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.112 ng/Kg	SL-084-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0823 ng/Kg	SL-206-SA5DN-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0947 ng/Kg	SL-254-SA5A-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.145 ng/Kg	
		OCDD	0.724 ng/Kg	
		OCDF	0.487 ng/Kg	
BLK1510B371538	6/3/2011 3:38:00 PM	1,2,3,4,6,7,8-HPCDD	0.286 ng/Kg	SL-076-SA5DN-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.161 ng/Kg	SL-080-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.174 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.107 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.144 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.114 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.124 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.149 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.206 ng/Kg	
		1,2,3,7,8-PECDD	0.125 ng/Kg	
		1,2,3,7,8-PECDF	0.132 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.134 ng/Kg	
		2,3,4,7,8-PECDF	0.151 ng/Kg	
		2,3,7,8-TCDD	0.0427 ng/Kg	
		2,3,7,8-TCDF	0.0225 ng/Kg	
		OCDD	0.448 ng/Kg	
		OCDF	0.332 ng/Kg	
BLK1510B371634	6/4/2011 4:34:00 PM	1,2,3,4,6,7,8-HPCDD	0.200 ng/Kg	SL-083-SA5DN-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.109 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0942 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0479 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0539 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0457 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0472 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0778 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.111 ng/Kg	
		1,2,3,7,8-PECDD	0.0560 ng/Kg	
		1,2,3,7,8-PECDF	0.0666 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0660 ng/Kg	
		2,3,4,7,8-PECDF	0.0691 ng/Kg	
		2,3,7,8-TCDD	0.0218 ng/Kg	
		2,3,7,8-TCDF	0.0191 ng/Kg	
		OCDD	0.455 ng/Kg	
		OCDF	0.232 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-072-SA5DN-SS-0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.855 ng/Kg	0.855U ng/Kg
SL-075-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.728 ng/Kg	0.728U ng/Kg
SL-075-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.320 ng/Kg	0.320U ng/Kg
SL-075-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.368 ng/Kg	0.368U ng/Kg
SL-076-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.460 ng/Kg	0.460U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: DX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-076-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.729 ng/Kg	0.729U ng/Kg
SL-079-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.684 ng/Kg	0.684U ng/Kg
SL-080-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.746 ng/Kg	0.746U ng/Kg
SL-081-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.541 ng/Kg	0.541U ng/Kg
SL-081-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.267 ng/Kg	0.267U ng/Kg
SL-081-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.660 ng/Kg	0.660U ng/Kg
SL-082-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.722 ng/Kg	0.722U ng/Kg
SL-082-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.327 ng/Kg	0.327U ng/Kg
SL-082-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.478 ng/Kg	0.478U ng/Kg
SL-206-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.647 ng/Kg	0.647U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.276 ng/Kg	0.276U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.199 ng/Kg	0.199U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.148 ng/Kg	0.148U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.332 ng/Kg	0.332U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.651 ng/Kg	0.651U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: DX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-072-SA5DN -SS-0-0.5MS	1,2,3,4,6,7,8-HPCDD	-	139	40.00-135.00	-	1,2,3,4,6,7,8-HPCDD	J (all detects)
SL-072-SA5DN -SS-0-0.5MSD	OCDD	418	577	40.00-135.00	-	OCDD	OCDD No Qual, >4x
(SL-072-SA5DN -SS-0-0.5)							

Field Duplicate RPD Report

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: PrepDX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-072-SA5DN-SS-0-0.5	DUP-01-SA5DN-QC-051711			
MOISTURE	10.5	9.3	12		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-072-SA5DN-SS-0-0.5	DUP-01-SA5DN-QC-051711			
1,2,3,4,6,7,8-HPCDD	112	140	22	50.00	
1,2,3,4,6,7,8-HPCDF	19.0	27.4	36	50.00	
1,2,3,4,7,8,9-HPCDF	1.10	1.55	34	50.00	
1,2,3,4,7,8-HxCDD	2.42	2.29	6	50.00	
1,2,3,4,7,8-HXCDF	1.52	2.00	27	50.00	
1,2,3,6,7,8-HXCDD	4.53	4.96	9	50.00	
1,2,3,6,7,8-HXCDF	1.39	1.34	4	50.00	
1,2,3,7,8,9-HXCDD	3.36	3.53	5	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.855	1.08	23	50.00	
1,2,3,7,8-PECDD	1.23	0.995	21	50.00	
1,2,3,7,8-PECDF	0.662	0.711	7	50.00	
2,3,4,6,7,8-HXCDF	1.02	1.21	17	50.00	
2,3,4,7,8-PECDF	1.11	0.965	14	50.00	
OCDD	1480	2150	37	50.00	
OCDF	26.9	35.5	28	50.00	
2,3,7,8-TCDD	0.242	0.112	73	50.00	J(all detects)
2,3,7,8-TCDF	0.483	0.249	64	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: DX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB01-SA5DN-SS-051711	1,2,3,4,6,7,8-HPCDD	JB	2.44	10.5	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	1.41	10.5	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.618	10.5	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.324	10.5	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.540	10.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.467	10.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.439	10.5	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.837	10.5	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.380	10.5	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.556	10.5	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.717	10.5	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.390	2.09	PQL	pg/L	
	OCDD	JBQ	4.71	20.9	PQL	pg/L	
	OCDF	JBQ	1.38	20.9	PQL	pg/L	

Method: 1613B
Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-01-SA5DN-QC-051711	1,2,3,4,7,8,9-HPCDF	JB	1.55	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.29	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.00	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.96	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.34	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.53	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.08	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.995	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.711	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.21	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.965	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.112	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.249	1.09	PQL	ng/Kg	
SL-066-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.32	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.01	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.44	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.72	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.39	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	1.24	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.553	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.74	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.13	5.35	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.290	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.624	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: DX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-067-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.79	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.72	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.08	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.28	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.37	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.76	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.03	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.726	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.38	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.997	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.296	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.758	1.08	PQL	ng/Kg	
SL-072-SA5DN-SS-0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.10	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.42	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.52	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.53	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.39	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.36	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.855	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.23	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.662	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.02	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.11	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.242	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.483	1.10	PQL	ng/Kg	
SL-074-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.67	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.04	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.62	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.05	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.24	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.92	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.14	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.911	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.886	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.37	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.971	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.221	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.362	1.07	PQL	ng/Kg	
SL-075-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.728	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.336	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.14	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.25	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.797	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.96	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.52	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.320	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.368	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.598	5.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.887	5.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0396	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.221	1.19	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: DX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.06	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.66	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.11	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.23	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.682	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.12	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.23	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.953	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.460	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.753	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.729	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.258	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.262	1.08	PQL	ng/Kg	
SL-079-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.65	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.77	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.83	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.45	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.47	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.37	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.55	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.992	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.433	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.16	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.684	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.188	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.325	1.10	PQL	ng/Kg	
SL-080-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.23	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.02	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.40	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.41	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.819	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.94	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.46	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.31	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.940	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.876	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.746	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.261	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.188	1.10	PQL	ng/Kg	
SL-081-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.761	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.00	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.900	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.03	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.610	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.53	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.04	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.541	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.267	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.663	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.660	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.233	1.05	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: DX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-082-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.722	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.63	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.07	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.18	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.565	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.20	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.16	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.935	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.327	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.556	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.478	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.143	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.306	1.10	PQL	ng/Kg	
SL-083-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.03	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.38	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.10	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.660	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.07	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.95	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.359	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.781	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.560	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.360	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.261	1.09	PQL	ng/Kg	
SL-084-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.909	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.68	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.29	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.892	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.00	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.72	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.520	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.761	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.896	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.383	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.285	1.07	PQL	ng/Kg	
SL-206-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.860	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.69	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.40	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.890	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.05	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.15	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.450	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.823	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.647	5.61	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.455	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.320	1.12	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX082 **Laboratory: LL**

EDD Filename: DX082_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-254-SA5A-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.36	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.230	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.281	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.642	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.707	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.221	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.767	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.276	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.199	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.148	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.332	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.651	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.217	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.219	1.02	PQL	ng/Kg	
	OCDF	JB	7.17	10.2	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX083

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-May-2011	SL-005-SA5DN-SB-4.0-5.0	6290814	N	METHOD	1613B	III
17-May-2011	SL-005-SA5DN-SB-9.0-10.0	6290815	N	METHOD	1613B	III
17-May-2011	SL-001-SA5DN-SB-9.0-10.0	6290813	N	METHOD	1613B	III
17-May-2011	SL-001-SA5DN-SB-5.5-6.5	6290812	N	METHOD	1613B	III
17-May-2011	SL-073-SA5DN-SB-4.0-5.0	6290818	N	METHOD	1613B	III
17-May-2011	SL-073-SA5DN-SB-9.0-10.0	6290819	N	METHOD	1613B	III
17-May-2011	SL-068-SA5DN-SB-4.0-5.0	6290816	N	METHOD	1613B	III
17-May-2011	SL-068-SA5DN-SB-9.0-10.0	6290817	N	METHOD	1613B	III
19-May-2011	SL-067-SA5DN-SB-4.0-5.0	6293439	N	METHOD	1613B	III
19-May-2011	SL-067-SA5DN-SB-9.0-10.0	6293440	N	METHOD	1613B	III
19-May-2011	SL-079-SA5DN-SB-4.0-5.0	6293441	N	METHOD	1613B	III
19-May-2011	SL-079-SA5DN-SB-9.0-10.0	6293442	N	METHOD	1613B	III
19-May-2011	EB03-SA5DN-SB-051911	6293447	EB	METHOD	1613B	III
19-May-2011	SL-080-SA5DN-SB-4.0-5.0	6293443	N	METHOD	1613B	III
19-May-2011	SL-080-SA5DN-SB-8.0-9.0	6293444	N	METHOD	1613B	III
19-May-2011	SL-082-SA5DN-SB-4.0-5.0	6293445	N	METHOD	1613B	III
19-May-2011	EB04-SA5DN-SS-051911	6293448	EB	METHOD	1613B	III
19-May-2011	SL-206-SA5DN-SB-4.0-5.0	6293446	N	METHOD	1613B	III
19-May-2011	SL-066-SA5DN-SB-4.0-5.0	6293437	N	METHOD	1613B	III
19-May-2011	SL-066-SA5DN-SB-9.0-10.0	6293438	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB03-SA5DN-SB-051911 *Collected:* 5/19/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.93	JB	0.232	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.835	JB	0.104	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.225	JB	0.112	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.262	JB	0.173	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.214	JBQ	0.162	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.213	JB	0.174	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.319	JBQ	0.152	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.181	JB	0.150	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.198	JBQ	0.120	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.504	JBQ	0.130	MDL	10.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.382	JB	0.107	MDL	10.2	PQL	pg/L	U	B
OCDD	3.12	JB	0.219	MDL	20.3	PQL	pg/L	U	B
OCDF	0.690	JBQ	0.262	MDL	20.3	PQL	pg/L	U	B

Sample ID: EB04-SA5DN-SS-051911 *Collected:* 5/19/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.11	JBQ	0.211	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.806	JBQ	0.0998	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.254	JB	0.110	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.335	JBQ	0.161	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.357	JBQ	0.167	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.207	JBQ	0.153	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.274	JBQ	0.153	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.200	JBQ	0.131	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.487	JB	0.140	MDL	10.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.327	JBQ	0.123	MDL	10.2	PQL	pg/L	U	B
2,3,7,8-TCDD	0.273	JBQ	0.262	MDL	2.04	PQL	pg/L	U	B
OCDD	3.64	JBQ	0.200	MDL	20.4	PQL	pg/L	U	B
OCDF	0.985	JBQ	0.288	MDL	20.4	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA5DN-SB-5.5-6.5 *Collected:* 5/17/2011 12:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.631	JB	0.0338	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.140	JB	0.0129	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.103	JBQ	0.0184	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0823	JB	0.0238	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0678	JB	0.0210	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.174	JBQ	0.0251	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0750	JBQ	0.0182	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.319	JB	0.0230	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.430	JBQ	0.0211	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0994	JBQ	0.0209	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.116	JB	0.0113	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0773	JBQ	0.0171	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0914	JBQ	0.0110	MDL	5.82	PQL	ng/Kg	U	B
OCDD	3.10	JB	0.0368	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.270	JB	0.0385	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-001-SA5DN-SB-9.0-10.0 *Collected:* 5/17/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.286	JB	0.0223	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.103	JBQ	0.00930	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0844	JBQ	0.0140	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0331	JB	0.0165	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0857	JB	0.0129	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0565	JB	0.0177	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0518	JBQ	0.0117	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0702	JBQ	0.0164	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0881	JBQ	0.0151	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0458	JB	0.0214	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0588	JB	0.00942	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0649	JBQ	0.0120	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0834	JBQ	0.00908	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0250	JBQ	0.0202	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0256	JBQ	0.0193	MDL	1.12	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory:** LL

EDD Filename: DX083_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA5DN-SB-9.0-10.0 *Collected:* 5/17/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.869	JB	0.0290	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.195	JBQ	0.0287	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-005-SA5DN-SB-4.0-5.0 *Collected:* 5/17/2011 10:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.311	JBQ	0.0267	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.115	JBQ	0.0115	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0578	JBQ	0.0179	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0429	JB	0.0164	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0667	JBQ	0.0148	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0599	JBQ	0.0170	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0508	JBQ	0.0132	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.105	JBQ	0.0161	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.130	JBQ	0.0152	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0502	JBQ	0.0205	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0591	JBQ	0.00980	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0670	JB	0.0133	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0934	JBQ	0.00980	MDL	5.78	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0367	JBQ	0.0216	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0305	JBQ	0.0202	MDL	1.16	PQL	ng/Kg	U	B
OCDD	0.733	JB	0.0266	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.216	JB	0.0301	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-005-SA5DN-SB-9.0-10.0 *Collected:* 5/17/2011 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.258	JBQ	0.0263	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.113	JB	0.0113	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0765	JB	0.0185	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0414	JBQ	0.0172	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0724	JBQ	0.0155	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0311	JBQ	0.0179	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0499	JBQ	0.0137	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0649	JBQ	0.0164	MDL	5.64	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory:** LL

EDD Filename: DX083_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-005-SA5DN-SB-9.0-10.0 *Collected:* 5/17/2011 10:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0660	JBQ	0.0165	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0685	JBQ	0.0238	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0553	JBQ	0.0113	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0475	JBQ	0.0143	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0925	JB	0.0118	MDL	5.64	PQL	ng/Kg	U	B
OCDD	0.628	JB	0.0292	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.258	JBQ	0.0356	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-066-SA5DN-SB-4.0-5.0 *Collected:* 5/19/2011 2:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.386	JBQ	0.0233	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.131	JB	0.0112	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0747	JBQ	0.0145	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0469	JBQ	0.0197	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0545	JB	0.0175	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.151	JB	0.0203	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0560	JB	0.0158	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.211	JB	0.0182	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.243	JB	0.0150	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0660	JBQ	0.0221	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0723	JBQ	0.00905	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0705	JBQ	0.0131	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0803	JBQ	0.00905	MDL	5.58	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0312	JB	0.0179	MDL	1.12	PQL	ng/Kg	U	B
OCDD	1.22	JB	0.0263	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.210	JBQ	0.0329	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-066-SA5DN-SB-9.0-10.0 *Collected:* 5/19/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.265	JB	0.0241	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.162	JBQ	0.00990	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0603	JBQ	0.0138	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0302	JBQ	0.0166	MDL	5.84	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-066-SA5DN-SB-9.0-10.0 ***Collected:*** 5/19/2011 2:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0597	JB	0.0113	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0511	JB	0.0168	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0623	JBQ	0.0104	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0534	JB	0.0156	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0691	JBQ	0.0124	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0319	JB	0.0189	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0311	JBQ	0.00931	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0725	JBQ	0.0107	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0760	JBQ	0.00859	MDL	5.84	PQL	ng/Kg	U	B
OCDD	0.651	JB	0.0296	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.213	JB	0.0289	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-067-SA5DN-SB-4.0-5.0 ***Collected:*** 5/19/2011 8:34:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.582	JB	0.0300	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.136	JBQ	0.0115	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0485	JB	0.0150	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0370	JB	0.0192	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0585	JBQ	0.0142	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.122	JBQ	0.0199	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0457	JBQ	0.0131	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.248	JB	0.0185	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.274	JBQ	0.0155	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0351	JB	0.0190	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0580	JBQ	0.0102	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0591	JB	0.0122	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0731	JBQ	0.00990	MDL	5.68	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0213	JBQ	0.0209	MDL	1.14	PQL	ng/Kg	U	B
OCDD	5.12	JB	0.0289	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.216	JB	0.0259	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-067-SA5DN-SB-9.0-10.0** ***Collected:*** **5/19/2011 8:40:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.45	JB	0.0554	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.488	JB	0.0209	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0794	JBQ	0.0311	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0622	JB	0.0262	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0572	JBQ	0.0230	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.174	JBQ	0.0278	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0578	JB	0.0210	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.161	JB	0.0251	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.116	JB	0.0249	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0435	JBQ	0.0301	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0371	JBQ	0.0155	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0833	JB	0.0210	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0914	JBQ	0.0152	MDL	5.78	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0422	JBQ	0.0308	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0325	JBQ	0.0287	MDL	1.16	PQL	ng/Kg	U	B
OCDF	1.09	JB	0.0485	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: **SL-068-SA5DN-SB-4.0-5.0** ***Collected:*** **5/17/2011 4:08:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.251	JB	0.0220	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.111	JB	0.00830	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0673	JB	0.0104	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0507	JB	0.0149	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0582	JBQ	0.00975	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0552	JBQ	0.0151	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0590	JB	0.00897	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.112	JBQ	0.0143	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0830	JBQ	0.0107	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0677	JBQ	0.0177	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0460	JBQ	0.00774	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0642	JBQ	0.00897	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0610	JBQ	0.00706	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0227	JBQ	0.0146	MDL	1.11	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-068-SA5DN-SB-4.0-5.0 *Collected:* 5/17/2011 4:08:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0165	JBQ	0.0122	MDL	1.11	PQL	ng/Kg	U	B
OCDD	0.683	JBQ	0.0242	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.152	JB	0.0280	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-068-SA5DN-SB-9.0-10.0 *Collected:* 5/17/2011 4:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.240	JBQ	0.0221	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.152	JB	0.00855	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0774	JBQ	0.0139	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0978	JB	0.0157	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.159	JBQ	0.0158	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.104	JBQ	0.0164	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.147	JB	0.0144	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.114	JB	0.0158	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.143	JB	0.0181	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.188	JBQ	0.0207	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.224	JBQ	0.0106	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.124	JB	0.0149	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.217	JB	0.0106	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0470	JBQ	0.0188	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0365	JBQ	0.0179	MDL	1.13	PQL	ng/Kg	U	B
OCDD	0.477	JB	0.0247	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.169	JBQ	0.0262	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-073-SA5DN-SB-4.0-5.0 *Collected:* 5/17/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.382	JB	0.0226	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.241	JB	0.0117	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.158	JB	0.0147	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.138	JB	0.0213	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.158	JBQ	0.0178	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.157	JB	0.0221	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.161	JBQ	0.0164	MDL	5.64	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory:** LL

EDD Filename: DX083_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-073-SA5DN-SB-4.0-5.0 ***Collected:*** 5/17/2011 3:19:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.200	JBQ	0.0208	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.221	JB	0.0173	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.211	JB	0.0200	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.159	JBQ	0.0102	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.165	JB	0.0164	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.167	JB	0.00973	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0375	JBQ	0.0163	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0433	JBQ	0.0141	MDL	1.13	PQL	ng/Kg	U	B
OCDD	0.850	JB	0.0245	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.334	JBQ	0.0267	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-073-SA5DN-SB-9.0-10.0 ***Collected:*** 5/17/2011 3:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.249	JB	0.0206	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.148	JB	0.00940	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0751	JB	0.0126	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0253	JBQ	0.0136	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0495	JB	0.0104	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0482	JBQ	0.0142	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0526	JBQ	0.00974	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0716	JBQ	0.0136	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0682	JB	0.0108	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0704	JBQ	0.0187	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0473	JB	0.00849	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0629	JBQ	0.00963	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0914	JB	0.00838	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0169	JBQ	0.0168	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.564	JBQ	0.0233	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.201	JB	0.0270	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-079-SA5DN-SB-4.0-5.0 ***Collected:*** 5/19/2011 9:34:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.951	JB	0.0388	MDL	5.61	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-079-SA5DN-SB-4.0-5.0** ***Collected:*** **5/19/2011 9:34:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.289	JB	0.0139	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0524	JB	0.0213	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0369	JB	0.0178	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0601	JBQ	0.0172	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.115	JB	0.0185	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0371	JBQ	0.0152	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.176	JB	0.0173	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.188	JB	0.0186	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0488	JBQ	0.0186	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0521	JBQ	0.00909	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0772	JB	0.0149	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0644	JBQ	0.00954	MDL	5.61	PQL	ng/Kg	U	B
OCDF	0.595	JB	0.0363	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: **SL-079-SA5DN-SB-9.0-10.0** ***Collected:*** **5/19/2011 9:39:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.539	JB	0.0361	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.168	JB	0.0116	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0380	JBQ	0.0154	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0616	JB	0.0199	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.117	JB	0.0161	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0742	JBQ	0.0207	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0889	JB	0.0139	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.101	JBQ	0.0190	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0698	JBQ	0.0162	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0854	JB	0.0238	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0890	JB	0.0118	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0864	JB	0.0132	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.132	JBQ	0.0114	MDL	5.95	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0376	JB	0.0210	MDL	1.19	PQL	ng/Kg	U	B
OCDD	6.37	JB	0.0264	MDL	11.9	PQL	ng/Kg	J	Z
OCDF	0.358	JB	0.0314	MDL	11.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-080-SA5DN-SB-4.0-5.0 ***Collected:*** 5/19/2011 10:44:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.651	JB	0.0343	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.136	JBQ	0.0130	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0794	JB	0.0171	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0739	JBQ	0.0235	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.138	JB	0.0282	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.127	JBQ	0.0247	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.118	JBQ	0.0240	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.189	JBQ	0.0231	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.237	JB	0.0193	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.147	JBQ	0.0278	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.144	JB	0.0117	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.101	JBQ	0.0174	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.133	JBQ	0.0124	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0506	JBQ	0.0247	MDL	1.11	PQL	ng/Kg	U	B
OCDD	6.59	JB	0.0353	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.272	JBQ	0.0396	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-080-SA5DN-SB-8.0-9.0 ***Collected:*** 5/19/2011 10:49:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.335	JB	0.0265	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.102	JBQ	0.00862	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0336	JB	0.0129	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0336	JB	0.0186	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0339	JB	0.0147	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0623	JBQ	0.0190	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0523	JB	0.0122	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0437	JBQ	0.0178	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0522	JBQ	0.0148	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0573	JBQ	0.0246	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0363	JB	0.0106	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0512	JBQ	0.0112	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0551	JBQ	0.0109	MDL	5.44	PQL	ng/Kg	U	B
OCDD	2.76	JB	0.0394	MDL	10.9	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory:** LL

EDD Filename: DX083_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-080-SA5DN-SB-8.0-9.0 ***Collected:*** 5/19/2011 10:49:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.174	JB	0.0375	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-082-SA5DN-SB-4.0-5.0 ***Collected:*** 5/19/2011 11:24:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.419	JBQ	0.0260	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.104	JBQ	0.00961	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0754	JBQ	0.0123	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0268	JB	0.0146	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0742	JB	0.0156	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0680	JB	0.0154	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0414	JBQ	0.0132	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0970	JBQ	0.0143	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0761	JB	0.0127	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0343	JBQ	0.00873	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0381	JB	0.00961	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0715	JB	0.00862	MDL	5.38	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0265	JBQ	0.0213	MDL	1.08	PQL	ng/Kg	U	B
OCDD	3.19	JB	0.0241	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.245	JBQ	0.0258	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-206-SA5DN-SB-4.0-5.0 ***Collected:*** 5/19/2011 2:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.531	JB	0.0271	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.112	JBQ	0.00838	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0567	JBQ	0.0123	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0348	JBQ	0.0153	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0726	JBQ	0.0134	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0679	JBQ	0.0163	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0533	JBQ	0.0111	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0915	JBQ	0.0148	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0812	JB	0.0123	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0505	JBQ	0.0195	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0304	JBQ	0.00953	MDL	5.72	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-206-SA5DN-SB-4.0-5.0** ***Collected:*** **5/19/2011 2:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2,3,4,6,7,8-HXCDF	0.0455	JBQ	0.00987	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0811	JB	0.00987	MDL	5.72	PQL	ng/Kg	U	B
OCDD	6.22	JB	0.0248	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.269	JB	0.0257	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX083

Method Blank Outlier Report

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1400B370746	5/25/2011 7:46:00 AM	1,2,3,4,6,7,8-HPCDD	2.50 pg/L	EB03-SA5DN-SB-051911
		1,2,3,4,6,7,8-HPCDF	1.49 pg/L	EB04-SA5DN-SS-051911
		1,2,3,4,7,8,9-HPCDF	0.992 pg/L	
		1,2,3,4,7,8-HxCDD	0.648 pg/L	
		1,2,3,4,7,8-HXCDF	0.579 pg/L	
		1,2,3,6,7,8-HXCDD	0.598 pg/L	
		1,2,3,6,7,8-HXCDF	0.716 pg/L	
		1,2,3,7,8,9-HXCDD	0.427 pg/L	
		1,2,3,7,8,9-HXCDF	1.14 pg/L	
		1,2,3,7,8-PECDD	1.03 pg/L	
		1,2,3,7,8-PECDF	0.573 pg/L	
		2,3,4,6,7,8-HXCDF	0.697 pg/L	
		2,3,4,7,8-PECDF	0.830 pg/L	
		2,3,7,8-TCDD	0.410 pg/L	
		OCDD	6.14 pg/L	
		OCDF	3.26 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB03-SA5DN-SB-051911(RES)	1,2,3,4,6,7,8-HPCDD	1.93 pg/L	1.93U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,4,6,7,8-HPCDF	0.835 pg/L	0.835U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,4,7,8,9-HPCDF	0.225 pg/L	0.225U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,4,7,8-HxCDD	0.262 pg/L	0.262U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,4,7,8-HXCDF	0.214 pg/L	0.214U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,6,7,8-HXCDD	0.213 pg/L	0.213U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,6,7,8-HXCDF	0.319 pg/L	0.319U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,7,8,9-HXCDF	0.181 pg/L	0.181U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,7,8-PECDF	0.198 pg/L	0.198U pg/L
EB03-SA5DN-SB-051911(RES)	2,3,4,6,7,8-HXCDF	0.504 pg/L	0.504U pg/L
EB03-SA5DN-SB-051911(RES)	2,3,4,7,8-PECDF	0.382 pg/L	0.382U pg/L
EB03-SA5DN-SB-051911(RES)	OCDD	3.12 pg/L	3.12U pg/L
EB03-SA5DN-SB-051911(RES)	OCDF	0.690 pg/L	0.690U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,4,6,7,8-HPCDD	2.11 pg/L	2.11U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,4,6,7,8-HPCDF	0.806 pg/L	0.806U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,4,7,8,9-HPCDF	0.254 pg/L	0.254U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,4,7,8-HXCDF	0.335 pg/L	0.335U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,6,7,8-HXCDD	0.357 pg/L	0.357U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,6,7,8-HXCDF	0.207 pg/L	0.207U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,7,8,9-HXCDD	0.274 pg/L	0.274U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,7,8-PECDF	0.200 pg/L	0.200U pg/L
EB04-SA5DN-SS-051911(RES)	2,3,4,6,7,8-HXCDF	0.487 pg/L	0.487U pg/L
EB04-SA5DN-SS-051911(RES)	2,3,4,7,8-PECDF	0.327 pg/L	0.327U pg/L
EB04-SA5DN-SS-051911(RES)	2,3,7,8-TCDD	0.273 pg/L	0.273U pg/L
EB04-SA5DN-SS-051911(RES)	OCDD	3.64 pg/L	3.64U pg/L
EB04-SA5DN-SS-051911(RES)	OCDF	0.985 pg/L	0.985U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1510B371538	6/3/2011 3:38:00 PM	1,2,3,4,6,7,8-HPCDD	0.286 ng/Kg	SL-001-SA5DN-SB-5.5-6.5
		1,2,3,4,6,7,8-HPCDF	0.161 ng/Kg	SL-001-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8,9-HPCDF	0.174 ng/Kg	SL-005-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.107 ng/Kg	SL-005-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.144 ng/Kg	SL-066-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.114 ng/Kg	SL-066-SA5DN-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.124 ng/Kg	SL-067-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.149 ng/Kg	SL-067-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.206 ng/Kg	SL-068-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.125 ng/Kg	SL-068-SA5DN-SB-9.0-10.0
		1,2,3,7,8-PECDF	0.132 ng/Kg	SL-073-SA5DN-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.134 ng/Kg	SL-073-SA5DN-SB-9.0-10.0
		2,3,4,7,8-PECDF	0.151 ng/Kg	SL-079-SA5DN-SB-4.0-5.0
		2,3,7,8-TCDD	0.0427 ng/Kg	SL-079-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDF	0.0225 ng/Kg	SL-080-SA5DN-SB-4.0-5.0
		OCDD	0.448 ng/Kg	SL-080-SA5DN-SB-8.0-9.0
		OCDF	0.332 ng/Kg	SL-082-SA5DN-SB-4.0-5.0
				SL-206-SA5DN-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,4,6,7,8-HPCDD	0.631 ng/Kg	0.631U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,4,6,7,8-HPCDF	0.140 ng/Kg	0.140U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,4,7,8,9-HPCDF	0.103 ng/Kg	0.103U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,4,7,8-HxCDD	0.0823 ng/Kg	0.0823U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,4,7,8-HXCDF	0.0678 ng/Kg	0.0678U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,6,7,8-HXCDD	0.174 ng/Kg	0.174U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,6,7,8-HXCDF	0.0750 ng/Kg	0.0750U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,7,8,9-HXCDD	0.319 ng/Kg	0.319U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,7,8,9-HXCDF	0.430 ng/Kg	0.430U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,7,8-PECDD	0.0994 ng/Kg	0.0994U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,7,8-PECDF	0.116 ng/Kg	0.116U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	2,3,4,6,7,8-HXCDF	0.0773 ng/Kg	0.0773U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	2,3,4,7,8-PECDF	0.0914 ng/Kg	0.0914U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	OCDF	0.270 ng/Kg	0.270U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.286 ng/Kg	0.286U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.103 ng/Kg	0.103U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0844 ng/Kg	0.0844U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0331 ng/Kg	0.0331U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0857 ng/Kg	0.0857U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0565 ng/Kg	0.0565U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0518 ng/Kg	0.0518U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0702 ng/Kg	0.0702U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0881 ng/Kg	0.0881U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0458 ng/Kg	0.0458U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0588 ng/Kg	0.0588U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-001-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0834 ng/Kg	0.0834U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0250 ng/Kg	0.0250U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0256 ng/Kg	0.0256U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	OCDD	0.869 ng/Kg	0.869U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	OCDF	0.195 ng/Kg	0.195U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.311 ng/Kg	0.311U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0578 ng/Kg	0.0578U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0429 ng/Kg	0.0429U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0599 ng/Kg	0.0599U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0508 ng/Kg	0.0508U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.105 ng/Kg	0.105U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0502 ng/Kg	0.0502U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0591 ng/Kg	0.0591U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0670 ng/Kg	0.0670U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0934 ng/Kg	0.0934U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0367 ng/Kg	0.0367U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0305 ng/Kg	0.0305U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	OCDD	0.733 ng/Kg	0.733U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	OCDF	0.216 ng/Kg	0.216U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.258 ng/Kg	0.258U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0765 ng/Kg	0.0765U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0414 ng/Kg	0.0414U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0724 ng/Kg	0.0724U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0311 ng/Kg	0.0311U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0499 ng/Kg	0.0499U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0649 ng/Kg	0.0649U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0660 ng/Kg	0.0660U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0685 ng/Kg	0.0685U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0475 ng/Kg	0.0475U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0925 ng/Kg	0.0925U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	OCDD	0.628 ng/Kg	0.628U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-005-SA5DN-SB-9.0-10.0(RES)	OCDF	0.258 ng/Kg	0.258U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.386 ng/Kg	0.386U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.131 ng/Kg	0.131U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0747 ng/Kg	0.0747U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0469 ng/Kg	0.0469U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0545 ng/Kg	0.0545U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.151 ng/Kg	0.151U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0560 ng/Kg	0.0560U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.211 ng/Kg	0.211U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.243 ng/Kg	0.243U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0660 ng/Kg	0.0660U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0723 ng/Kg	0.0723U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0705 ng/Kg	0.0705U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0803 ng/Kg	0.0803U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0312 ng/Kg	0.0312U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	OCDD	1.22 ng/Kg	1.22U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	OCDF	0.210 ng/Kg	0.210U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.265 ng/Kg	0.265U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.162 ng/Kg	0.162U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0603 ng/Kg	0.0603U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0302 ng/Kg	0.0302U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0511 ng/Kg	0.0511U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0623 ng/Kg	0.0623U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0534 ng/Kg	0.0534U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0691 ng/Kg	0.0691U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0319 ng/Kg	0.0319U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0760 ng/Kg	0.0760U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	OCDD	0.651 ng/Kg	0.651U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	OCDF	0.213 ng/Kg	0.213U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.582 ng/Kg	0.582U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0370 ng/Kg	0.0370U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0585 ng/Kg	0.0585U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0457 ng/Kg	0.0457U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.248 ng/Kg	0.248U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.274 ng/Kg	0.274U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0591 ng/Kg	0.0591U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0731 ng/Kg	0.0731U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0213 ng/Kg	0.0213U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	OCDF	0.216 ng/Kg	0.216U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.488 ng/Kg	0.488U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0794 ng/Kg	0.0794U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0622 ng/Kg	0.0622U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0572 ng/Kg	0.0572U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.174 ng/Kg	0.174U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0578 ng/Kg	0.0578U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.161 ng/Kg	0.161U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0435 ng/Kg	0.0435U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0371 ng/Kg	0.0371U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0914 ng/Kg	0.0914U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0422 ng/Kg	0.0422U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0325 ng/Kg	0.0325U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	OCDF	1.09 ng/Kg	1.09U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.251 ng/Kg	0.251U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0507 ng/Kg	0.0507U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0552 ng/Kg	0.0552U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0590 ng/Kg	0.0590U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.112 ng/Kg	0.112U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0677 ng/Kg	0.0677U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0642 ng/Kg	0.0642U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-068-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0227 ng/Kg	0.0227U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0165 ng/Kg	0.0165U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	OCDD	0.683 ng/Kg	0.683U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	OCDF	0.152 ng/Kg	0.152U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.240 ng/Kg	0.240U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.152 ng/Kg	0.152U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0774 ng/Kg	0.0774U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0978 ng/Kg	0.0978U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.159 ng/Kg	0.159U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.104 ng/Kg	0.104U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.188 ng/Kg	0.188U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.217 ng/Kg	0.217U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0470 ng/Kg	0.0470U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0365 ng/Kg	0.0365U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	OCDD	0.477 ng/Kg	0.477U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	OCDF	0.169 ng/Kg	0.169U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.382 ng/Kg	0.382U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.241 ng/Kg	0.241U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.158 ng/Kg	0.158U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.138 ng/Kg	0.138U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.158 ng/Kg	0.158U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.157 ng/Kg	0.157U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.161 ng/Kg	0.161U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.200 ng/Kg	0.200U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.211 ng/Kg	0.211U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.159 ng/Kg	0.159U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.167 ng/Kg	0.167U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0375 ng/Kg	0.0375U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0433 ng/Kg	0.0433U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-073-SA5DN-SB-4.0-5.0(RES)	OCDD	0.850 ng/Kg	0.850U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	OCDF	0.334 ng/Kg	0.334U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.249 ng/Kg	0.249U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.148 ng/Kg	0.148U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0751 ng/Kg	0.0751U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0253 ng/Kg	0.0253U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0482 ng/Kg	0.0482U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0716 ng/Kg	0.0716U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0704 ng/Kg	0.0704U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0473 ng/Kg	0.0473U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0629 ng/Kg	0.0629U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0914 ng/Kg	0.0914U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0169 ng/Kg	0.0169U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	OCDD	0.564 ng/Kg	0.564U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.951 ng/Kg	0.951U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.289 ng/Kg	0.289U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0369 ng/Kg	0.0369U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0601 ng/Kg	0.0601U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.115 ng/Kg	0.115U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0371 ng/Kg	0.0371U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.176 ng/Kg	0.176U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.188 ng/Kg	0.188U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0488 ng/Kg	0.0488U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0772 ng/Kg	0.0772U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0644 ng/Kg	0.0644U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	OCDF	0.595 ng/Kg	0.595U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.539 ng/Kg	0.539U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0380 ng/Kg	0.0380U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0616 ng/Kg	0.0616U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0742 ng/Kg	0.0742U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0889 ng/Kg	0.0889U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.101 ng/Kg	0.101U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0698 ng/Kg	0.0698U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0854 ng/Kg	0.0854U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0890 ng/Kg	0.0890U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0864 ng/Kg	0.0864U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.132 ng/Kg	0.132U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0376 ng/Kg	0.0376U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	OCDF	0.358 ng/Kg	0.358U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.651 ng/Kg	0.651U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0794 ng/Kg	0.0794U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0739 ng/Kg	0.0739U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.127 ng/Kg	0.127U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.189 ng/Kg	0.189U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.237 ng/Kg	0.237U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.147 ng/Kg	0.147U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.144 ng/Kg	0.144U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0506 ng/Kg	0.0506U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	OCDF	0.272 ng/Kg	0.272U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.335 ng/Kg	0.335U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0336 ng/Kg	0.0336U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.0623 ng/Kg	0.0623U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.0523 ng/Kg	0.0523U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.0437 ng/Kg	0.0437U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDD	0.0573 ng/Kg	0.0573U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.0363 ng/Kg	0.0363U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.0512 ng/Kg	0.0512U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-080-SA5DN-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.0551 ng/Kg	0.0551U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	OCDF	0.174 ng/Kg	0.174U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.419 ng/Kg	0.419U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0754 ng/Kg	0.0754U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0268 ng/Kg	0.0268U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0742 ng/Kg	0.0742U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0680 ng/Kg	0.0680U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0970 ng/Kg	0.0970U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0761 ng/Kg	0.0761U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0343 ng/Kg	0.0343U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0715 ng/Kg	0.0715U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0265 ng/Kg	0.0265U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	OCDF	0.245 ng/Kg	0.245U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.531 ng/Kg	0.531U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.112 ng/Kg	0.112U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0567 ng/Kg	0.0567U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0348 ng/Kg	0.0348U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0726 ng/Kg	0.0726U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0679 ng/Kg	0.0679U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0915 ng/Kg	0.0915U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0505 ng/Kg	0.0505U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0304 ng/Kg	0.0304U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	OCDF	0.269 ng/Kg	0.269U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB03-SA5DN-SB-051911	1,2,3,4,6,7,8-HPCDD	JB	1.93	10.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.835	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.225	10.2	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JB	0.262	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.214	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.213	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.319	10.2	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.181	10.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.198	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.504	10.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.382	10.2	PQL	pg/L	
	OCDD	JB	3.12	20.3	PQL	pg/L	
	OCDF	JBQ	0.690	20.3	PQL	pg/L	
EB04-SA5DN-SS-051911	1,2,3,4,6,7,8-HPCDD	JBQ	2.11	10.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.806	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.254	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.335	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.357	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.207	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.274	10.2	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.200	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.487	10.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.327	10.2	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.273	2.04	PQL	pg/L	
	OCDD	JBQ	3.64	20.4	PQL	pg/L	
	OCDF	JBQ	0.985	20.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA5DN-SB-5.5-6.5	1,2,3,4,6,7,8-HPCDD	JB	0.631	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.140	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.103	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0823	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0678	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.174	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0750	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.319	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.430	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0994	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.116	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0773	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0914	5.82	PQL	ng/Kg	
	OCDD	JB	3.10	11.6	PQL	ng/Kg	
	OCDF	JB	0.270	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.286	5.59	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.103	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0844	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0331	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0857	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0565	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0518	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0702	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0881	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0458	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0588	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0649	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0834	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0250	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0256	1.12	PQL	ng/Kg	
	OCDD	JB	0.869	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.195	11.2	PQL	ng/Kg	
SL-005-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.311	5.78	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.115	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0578	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0429	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0667	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0599	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0508	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.105	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.130	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0502	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0591	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0670	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0934	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0367	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0305	1.16	PQL	ng/Kg	
	OCDD	JB	0.733	11.6	PQL	ng/Kg	
	OCDF	JB	0.216	11.6	PQL	ng/Kg	
SL-005-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.258	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.113	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0765	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0414	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0724	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0311	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0499	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0649	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0660	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0685	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0553	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0475	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0925	5.64	PQL	ng/Kg	
	OCDD	JB	0.628	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.258	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-066-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.386	5.58	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.131	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0747	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0469	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0545	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.151	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0560	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.211	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.243	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0660	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0723	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0705	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0803	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0312	1.12	PQL	ng/Kg	
	OCDD	JB	1.22	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.210	11.2	PQL	ng/Kg	
SL-066-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.265	5.84	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.162	5.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0603	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0302	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0597	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0511	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0623	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0534	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0691	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0319	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0311	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0725	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0760	5.84	PQL	ng/Kg	
	OCDD	JB	0.651	11.7	PQL	ng/Kg	
	OCDF	JB	0.213	11.7	PQL	ng/Kg	
SL-067-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.582	5.68	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.136	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0485	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0370	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0585	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.122	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0457	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.248	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.274	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0351	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0580	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0591	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0731	5.68	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0213	1.14	PQL	ng/Kg	
	OCDD	JB	5.12	11.4	PQL	ng/Kg	
	OCDF	JB	0.216	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-067-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	3.45	5.78	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.488	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0794	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0622	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0572	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.174	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0578	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.161	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.116	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0435	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0371	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0833	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0914	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0422	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0325	1.16	PQL	ng/Kg	
	OCDF	JB	1.09	11.6	PQL	ng/Kg	
SL-068-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.251	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.111	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0673	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0507	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0582	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0552	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0590	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.112	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0830	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0677	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0460	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0642	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0610	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0227	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0165	1.11	PQL	ng/Kg	
	OCDD	JBQ	0.683	11.1	PQL	ng/Kg	
	OCDF	JB	0.152	11.1	PQL	ng/Kg	
SL-068-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.240	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.152	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0774	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0978	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.159	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.104	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.147	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.114	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.143	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.188	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.224	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.124	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.217	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0470	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0365	1.13	PQL	ng/Kg	
	OCDD	JB	0.477	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.169	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.382	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.241	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.158	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.138	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.158	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.157	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.161	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.200	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.221	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.211	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.159	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.165	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.167	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0375	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0433	1.13	PQL	ng/Kg	
	OCDD	JB	0.850	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.334	11.3	PQL	ng/Kg	
SL-073-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.249	5.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.148	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0751	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0253	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0495	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0482	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0526	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0716	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0682	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0704	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0473	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0629	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0914	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0169	1.10	PQL	ng/Kg	
	OCDD	JBQ	0.564	11.0	PQL	ng/Kg	
	OCDF	JB	0.201	11.0	PQL	ng/Kg	
SL-079-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.951	5.61	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.289	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0524	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0369	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0601	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.115	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0371	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.176	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.188	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0488	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0521	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0772	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0644	5.61	PQL	ng/Kg	
	OCDF	JB	0.595	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-079-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.539	5.95	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.168	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0380	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0616	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.117	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0742	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0889	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.101	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0698	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0854	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0890	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0864	5.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.132	5.95	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0376	1.19	PQL	ng/Kg	
	OCDD	JB	6.37	11.9	PQL	ng/Kg	
	OCDF	JB	0.358	11.9	PQL	ng/Kg	
SL-080-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.651	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.136	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0794	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0739	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.138	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.127	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.118	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.189	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.237	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.147	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.144	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.101	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.133	5.57	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0506	1.11	PQL	ng/Kg	
	OCDD	JB	6.59	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.272	11.1	PQL	ng/Kg	
SL-080-SA5DN-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.335	5.44	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.102	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0336	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0336	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0339	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0623	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0523	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0437	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0522	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0573	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0363	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0512	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0551	5.44	PQL	ng/Kg	
	OCDD	JB	2.76	10.9	PQL	ng/Kg	
	OCDF	JB	0.174	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX083 **Laboratory: LL**

EDD Filename: DX083_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-082-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.419	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.104	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0754	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0268	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0742	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0680	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0414	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0970	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0761	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0343	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0381	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0715	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0265	1.08	PQL	ng/Kg	
	OCDD	JB	3.19	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.245	10.8	PQL	ng/Kg	
SL-206-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.531	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.112	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0567	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0348	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0726	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0679	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0533	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0915	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0812	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0505	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0304	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0455	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0811	5.72	PQL	ng/Kg	
	OCDD	JB	6.22	11.4	PQL	ng/Kg	
	OCDF	JB	0.269	11.4	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX084

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-May-2011	SL-090-SA5DN-SS-0.0-0.5	6292027	N	METHOD	1613B	III
18-May-2011	SL-089-SA5DN-SS-0-0.5	6292024	N	METHOD	1613B	III
18-May-2011	SL-089-SA5DN-SS-0-0.5MS	6292025	MS	METHOD	1613B	III
18-May-2011	SL-089-SA5DN-SS-0-0.5MSD	6292026	MSD	METHOD	1613B	III
18-May-2011	DUP-02-SA5DN-QC-051811	6292029	FD	METHOD	1613B	III
18-May-2011	SL-087-SA5DN-SS-0.0-0.5	6292022	N	METHOD	1613B	III
18-May-2011	SL-086-SA5DN-SS-0.0-0.5	6292021	N	METHOD	1613B	III
18-May-2011	SL-088-SA5DN-SS-0.0-0.5	6292023	N	METHOD	1613B	III
18-May-2011	SL-064-SA5DN-SS-0.0-0.5	6292019	N	METHOD	1613B	III
18-May-2011	SL-065-SA5DN-SS-0.0-0.5	6292020	N	METHOD	1613B	III
18-May-2011	SL-202-SA5DN-SS-0.0-0.5	6292028	N	METHOD	1613B	III
18-May-2011	SL-054-SA5DN-SS-0.0-0.5	6292014	N	METHOD	1613B	III
18-May-2011	SL-059-SA5DN-SS-0.0-0.5	6292018	N	METHOD	1613B	III
18-May-2011	SL-055-SA5DN-SS-0.0-0.5	6292015	N	METHOD	1613B	III
18-May-2011	SL-056-SA5DN-SS-0.0-0.5	6292016	N	METHOD	1613B	III
18-May-2011	SL-058-SA5DN-SS-0.0-0.5	6292017	N	METHOD	1613B	III
19-May-2011	SL-032-SA5DN-SS-0.0-0.5	6293473	N	METHOD	1613B	III
19-May-2011	SL-033-SA5DN-SS-0.0-0.5	6293474	N	METHOD	1613B	III
19-May-2011	SL-035-SA5DN-SS-0.0-0.5	6293476	N	METHOD	1613B	III
19-May-2011	SL-034-SA5DN-SS-0.0-0.5	6293475	N	METHOD	1613B	III
19-May-2011	SL-031-SA5DN-SS-0.0-0.5	6293472	N	METHOD	1613B	III
19-May-2011	SL-030-SA5DN-SS-0.0-0.5	6293471	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP-02-SA5DN-QC-051811 ***Collected:*** 5/18/2011 9:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.32	JB	0.0589	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.87	JB	0.0402	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.37	JB	0.0321	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.27	JB	0.0395	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.651	JB	0.0161	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.87	JB	0.0314	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.644	JB	0.0169	MDL	5.71	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.967	JB	0.0282	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.109	JBQ	0.0265	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	21100	EB	0.240	MDL	11.4	PQL	ng/Kg	J	*XI

Sample ID: SL-030-SA5DN-SS-0.0-0.5 ***Collected:*** 5/19/2011 3:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.64	JB	0.0285	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.213	JB	0.0387	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.273	JB	0.0461	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.592	JBQ	0.0391	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.784	JB	0.0476	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.322	JB	0.0332	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.659	JB	0.0425	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.432	JB	0.0306	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.309	JBQ	0.0338	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.283	JBQ	0.0278	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.287	JBQ	0.0287	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.388	JB	0.0299	MDL	5.74	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0662	JQ	0.0266	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.120	JB	0.0468	MDL	1.15	PQL	ng/Kg	U	B
OCDF	3.61	JB	0.0440	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-031-SA5DN-SS-0.0-0.5 ***Collected:*** 5/19/2011 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.26	JB	0.0376	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.314	JB	0.0127	MDL	5.78	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-031-SA5DN-SS-0.0-0.5 *Collected:* 5/19/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0416	JBQ	0.0228	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0799	JB	0.0267	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0524	JB	0.0213	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.212	JBQ	0.0285	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0616	JB	0.0174	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.202	JBQ	0.0279	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.122	JB	0.0254	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0773	JBQ	0.0259	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0611	JBQ	0.0184	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0882	JB	0.0192	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0964	JB	0.0192	MDL	5.78	PQL	ng/Kg	U	B
OCDF	0.814	JB	0.0491	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-032-SA5DN-SS-0.0-0.5 *Collected:* 5/19/2011 12:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.21	JB	0.0126	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.205	JB	0.0181	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.130	JBQ	0.0215	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.582	JB	0.0206	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.576	JB	0.0229	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.158	JBQ	0.0189	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.579	JB	0.0223	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.356	JB	0.0237	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.125	JB	0.0237	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.356	JB	0.0265	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.147	JBQ	0.0187	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.876	JB	0.0274	MDL	5.55	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0243	JBQ	0.0242	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.984	JB	0.103	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	3.06	JB	0.0235	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-033-SA5DN-SS-0.0-0.5 ***Collected:*** 5/19/2011 1:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.82	JB	0.0294	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.104	JBQ	0.0260	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.145	JBQ	0.0463	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.293	JBQ	0.0643	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.504	JB	0.0468	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.273	JBQ	0.0502	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.553	JBQ	0.0432	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.423	JB	0.0277	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.154	JBQ	0.0325	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0945	JBQ	0.0226	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.377	JBQ	0.0225	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.155	JBQ	0.0239	MDL	5.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0495	JQ	0.0228	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0515	JBQ	0.0339	MDL	1.16	PQL	ng/Kg	U	B
OCDF	2.14	JB	0.0416	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-034-SA5DN-SS-0.0-0.5 ***Collected:*** 5/19/2011 2:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.85	JBQ	0.153	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.428	JBQ	0.165	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.267	JBQ	0.174	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.287	JBQ	0.210	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.622	JBQ	0.178	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.517	JBQ	0.186	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.524	JB	0.187	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.371	JBQ	0.165	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.447	JB	0.124	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.491	JBQ	0.143	MDL	5.47	PQL	ng/Kg	J	Z
OCDF	3.78	JB	0.236	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-035-SA5DN-SS-0.0-0.5 ***Collected:*** 5/19/2011 1:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.86	JB	0.0516	MDL	5.62	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-035-SA5DN-SS-0.0-0.5** ***Collected:*** **5/19/2011 1:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.392	JBQ	0.0202	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0450	JBQ	0.0298	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0708	JBQ	0.0430	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.173	JBQ	0.0427	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.445	JB	0.0424	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.554	JBQ	0.0396	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.751	JBQ	0.0313	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.116	JBQ	0.0385	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.163	JB	0.0299	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.109	JB	0.0228	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.101	JB	0.0294	MDL	5.62	PQL	ng/Kg	U	B
OCDF	0.750	JBQ	0.0611	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: **SL-054-SA5DN-SS-0.0-0.5** ***Collected:*** **5/18/2011 1:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.59	JB	0.0263	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.190	JBQ	0.0293	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.292	JB	0.0461	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.859	JB	0.0494	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.10	JB	0.0459	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.244	JB	0.0436	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.871	JB	0.0447	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.556	JB	0.0377	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.194	JBQ	0.0384	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.184	JBQ	0.0381	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.242	JB	0.0368	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.345	JBQ	0.0364	MDL	5.50	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.276	JBQ	0.0667	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	7.93	JB	0.0320	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: **SL-055-SA5DN-SS-0.0-0.5** ***Collected:*** **5/18/2011 2:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.01	JB	0.0564	MDL	5.69	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-055-SA5DN-SS-0.0-0.5** ***Collected:*** **5/18/2011 2:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.278	JBQ	0.0571	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.183	JBQ	0.103	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.874	JB	0.0771	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.46	JB	0.0997	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.900	JB	0.0679	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.733	JBQ	0.102	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.400	JBQ	0.0634	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.240	JBQ	0.0662	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.390	JBQ	0.0615	MDL	5.69	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.438	JB	0.0556	MDL	5.69	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.806	JB	0.0618	MDL	5.69	PQL	ng/Kg	J	Z
OCDF	5.20	JB	0.0646	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: **SL-056-SA5DN-SS-0.0-0.5** ***Collected:*** **5/18/2011 2:53:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.70	JB	0.0419	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.856	JB	0.0220	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0639	JBQ	0.0247	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0897	JB	0.0398	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.180	JBQ	0.0280	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.266	JB	0.0407	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.127	JB	0.0278	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.279	JBQ	0.0389	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.207	JB	0.0310	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0747	JBQ	0.0294	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0951	JBQ	0.0259	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.136	JB	0.0258	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.153	JB	0.0246	MDL	5.62	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0269	JQ	0.0252	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0506	JBQ	0.0468	MDL	1.12	PQL	ng/Kg	U	B
OCDF	1.62	JB	0.0341	MDL	11.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-058-SA5DN-SS-0.0-0.5 ***Collected:*** 5/18/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.06	JB	0.0278	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.351	JB	0.0358	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.324	JB	0.0530	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.09	JB	0.0541	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.36	JB	0.0527	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.345	JBQ	0.0465	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.26	JB	0.0528	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.01	JB	0.0436	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.301	JB	0.0433	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.390	JB	0.0424	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.429	JB	0.0374	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.819	JB	0.0408	MDL	5.66	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0577	JQ	0.0276	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.526	JBQ	0.0885	MDL	1.13	PQL	ng/Kg	J	Z

Sample ID: SL-059-SA5DN-SS-0.0-0.5 ***Collected:*** 5/18/2011 2:08:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.69	JB	0.0464	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.731	JB	0.0392	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0345	JBQ	0.0244	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0666	JB	0.0373	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.305	JBQ	0.0705	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.353	JB	0.0405	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.155	JBQ	0.0644	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.385	JB	0.0350	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.499	JBQ	0.0265	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.117	JBQ	0.0221	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.118	JBQ	0.0240	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.189	JB	0.0218	MDL	5.57	PQL	ng/Kg	U	B
OCDF	2.48	JB	0.0391	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-064-SA5DN-SS-0.0-0.5 ***Collected:*** 5/18/2011 10:28:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.93	JB	0.0800	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.60	JB	0.124	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.17	JB	0.111	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.68	JB	0.0674	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.20	JB	0.0793	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.07	JB	0.0918	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.23	JB	0.0576	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.24	JB	0.0824	MDL	5.77	PQL	ng/Kg	J	Z
OCDD	7850	EB	0.293	MDL	11.5	PQL	ng/Kg	J	*XI

Sample ID: SL-065-SA5DN-SS-0.0-0.5 ***Collected:*** 5/18/2011 10:53:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.05	JB	0.0682	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	5.19	JB	0.0676	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.49	JB	0.0628	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.78	JB	0.0551	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.03	JB	0.0631	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.09	JB	0.0789	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.603	JB	0.0426	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.11	JB	0.0539	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.04	JB	0.0419	MDL	5.64	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.375	JB	0.0220	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.623	JBQ	0.0967	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	5070	EB	0.172	MDL	11.3	PQL	ng/Kg	J	*XI

Sample ID: SL-086-SA5DN-SS-0.0-0.5 ***Collected:*** 5/18/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.639	JB	0.0557	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.10	JB	0.0642	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.773	JB	0.0491	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.465	JB	0.0407	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.982	JB	0.0411	MDL	5.74	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-086-SA5DN-SS-0.0-0.5** *Collected:* **5/18/2011 9:50:00** *Analysis Type:* **RES** *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	2.31	JBQ	0.0583	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.338	JB	0.0228	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.504	JBQ	0.0355	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.359	JB	0.0247	MDL	5.74	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.364	JQ	0.0333	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.114	JBQ	0.0430	MDL	1.15	PQL	ng/Kg	U	B

Sample ID: **SL-087-SA5DN-SS-0.0-0.5** *Collected:* **5/18/2011 9:30:00** *Analysis Type:* **RES** *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.28	JB	0.0606	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	5.09	JB	0.0567	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.51	JB	0.0550	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.855	JB	0.0523	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.32	JB	0.0577	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.56	JB	0.0632	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.421	JB	0.0343	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.966	JB	0.0513	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.967	JB	0.0341	MDL	5.60	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.486	JBQ	0.0204	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.404	JB	0.0739	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	5400	EB	0.212	MDL	11.2	PQL	ng/Kg	J	*XI

Sample ID: **SL-088-SA5DN-SS-0.0-0.5** *Collected:* **5/18/2011 10:15:00** *Analysis Type:* **RES** *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.83	JB	0.0197	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.261	JB	0.0364	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.85	JB	0.0510	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.297	JB	0.0351	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.27	JB	0.0533	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.231	JB	0.0289	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	5.22	JB	0.0519	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.58	JB	0.0441	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.29	JB	0.0529	MDL	5.56	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-088-SA5DN-SS-0.0-0.5 *Collected:* 5/18/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.369	JB	0.0128	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.240	JB	0.0328	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.172	JBQ	0.0145	MDL	5.56	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.131	JB	0.0175	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0919	JBQ	0.0226	MDL	1.11	PQL	ng/Kg	U	B

Sample ID: SL-089-SA5DN-SS-0-0.5 *Collected:* 5/18/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	864	B	0.284	MDL	5.78	PQL	ng/Kg	J	Q, Q
1,2,3,4,6,7,8-HPCDF	52.7	B	0.0555	MDL	5.78	PQL	ng/Kg	J	Q, Q
1,2,3,4,7,8,9-HPCDF	2.17	JB	0.0805	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.47	JB	0.0919	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	33.8	B	0.104	MDL	5.78	PQL	ng/Kg	J	Q, Q
1,2,3,6,7,8-HXCDF	1.72	JB	0.0686	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	36.3	B	0.0974	MDL	5.78	PQL	ng/Kg	J	Q, Q
1,2,3,7,8,9-HXCDF	1.38	JB	0.0650	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.521	JBQ	0.0213	MDL	5.78	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.05	JB	0.0471	MDL	5.78	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.623	JB	0.0229	MDL	5.78	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	1.08	J	0.0385	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.117	JBQ	0.0425	MDL	1.16	PQL	ng/Kg	U	B
OCDD	16400	EB	0.273	MDL	11.6	PQL	ng/Kg	J	*XI
OCDF	167	B	0.0754	MDL	11.6	PQL	ng/Kg	J	Q, Q

Sample ID: SL-090-SA5DN-SS-0.0-0.5 *Collected:* 5/18/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	10500	EB	0.784	MDL	6.16	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	3.68	JB	0.184	MDL	6.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.938	JB	0.0551	MDL	6.16	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.17	JB	0.0512	MDL	6.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.626	JB	0.0323	MDL	1.23	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.384	JB	0.0745	MDL	1.23	PQL	ng/Kg	J	Z
OCDD	124000	EB	0.637	MDL	12.3	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-202-SA5DN-SS-0.0-0.5** ***Collected:*** **5/18/2011 1:10:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,4,6,7,8-HPCDF	3.91	JB	0.0530	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.330	JB	0.0647	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.334	JB	0.0802	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.620	JB	0.0559	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.87	JB	0.0879	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.372	JB	0.0533	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.01	JBQ	0.0810	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.734	JB	0.0562	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.203	JB	0.0660	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.325	JB	0.0514	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0623	JB	0.0566	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.191	JB	0.0830	MDL	1.12	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX084

Method Blank Outlier Report

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: DX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1440B370848	5/28/2011 8:48:00 AM	1,2,3,4,6,7,8-HPCDD	0.229 ng/Kg	SL-030-SA5DN-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	SL-033-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.109 ng/Kg	SL-034-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0371 ng/Kg	SL-035-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.102 ng/Kg	SL-054-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0613 ng/Kg	SL-055-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0849 ng/Kg	SL-056-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0642 ng/Kg	SL-058-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0750 ng/Kg	SL-059-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0618 ng/Kg	SL-064-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0544 ng/Kg	SL-086-SA5DN-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0778 ng/Kg	SL-089-SA5DN-SS-0-0.5
		2,3,4,7,8-PECDF	0.0554 ng/Kg	
		2,3,7,8-TCDF	0.0330 ng/Kg	
		OCDD	0.871 ng/Kg	
		OCDF	0.386 ng/Kg	
BLK1440B371854	6/6/2011 6:54:00 PM	2,3,7,8-TCDF	0.0180 ng/Kg	SL-030-SA5DN-SS-0.0-0.5
				SL-033-SA5DN-SS-0.0-0.5
				SL-034-SA5DN-SS-0.0-0.5
				SL-035-SA5DN-SS-0.0-0.5
				SL-054-SA5DN-SS-0.0-0.5
				SL-055-SA5DN-SS-0.0-0.5
				SL-056-SA5DN-SS-0.0-0.5
				SL-058-SA5DN-SS-0.0-0.5
				SL-059-SA5DN-SS-0.0-0.5
				SL-064-SA5DN-SS-0.0-0.5
				SL-086-SA5DN-SS-0.0-0.5
				SL-089-SA5DN-SS-0-0.5
BLK1510B371634	6/4/2011 4:34:00 PM	1,2,3,4,6,7,8-HPCDD	0.200 ng/Kg	DUP-02-SA5DN-QC-051811
		1,2,3,4,6,7,8-HPCDF	0.109 ng/Kg	SL-031-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0942 ng/Kg	SL-032-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0479 ng/Kg	SL-065-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0539 ng/Kg	SL-087-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0457 ng/Kg	SL-088-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0472 ng/Kg	SL-090-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0778 ng/Kg	SL-202-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.111 ng/Kg	
		1,2,3,7,8-PECDD	0.0560 ng/Kg	
		1,2,3,7,8-PECDF	0.0666 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0660 ng/Kg	
		2,3,4,7,8-PECDF	0.0691 ng/Kg	
		2,3,7,8-TCDD	0.0218 ng/Kg	
		2,3,7,8-TCDF	0.0191 ng/Kg	
		OCDD	0.455 ng/Kg	
		OCDF	0.232 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-030-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.213 ng/Kg	0.213U ng/Kg
SL-030-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.322 ng/Kg	0.322U ng/Kg
SL-030-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.309 ng/Kg	0.309U ng/Kg
SL-030-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.287 ng/Kg	0.287U ng/Kg
SL-030-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.120 ng/Kg	0.120U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.314 ng/Kg	0.314U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0416 ng/Kg	0.0416U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0799 ng/Kg	0.0799U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: DX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.212 ng/Kg	0.212U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0616 ng/Kg	0.0616U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.202 ng/Kg	0.202U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0773 ng/Kg	0.0773U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0611 ng/Kg	0.0611U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0882 ng/Kg	0.0882U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0964 ng/Kg	0.0964U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	OCDF	0.814 ng/Kg	0.814U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.205 ng/Kg	0.205U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.130 ng/Kg	0.130U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.158 ng/Kg	0.158U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.356 ng/Kg	0.356U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.125 ng/Kg	0.125U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0243 ng/Kg	0.0243U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.145 ng/Kg	0.145U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.293 ng/Kg	0.293U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.273 ng/Kg	0.273U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.154 ng/Kg	0.154U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0945 ng/Kg	0.0945U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.377 ng/Kg	0.377U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.155 ng/Kg	0.155U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0515 ng/Kg	0.0515U ng/Kg
SL-034-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.428 ng/Kg	0.428U ng/Kg
SL-034-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.287 ng/Kg	0.287U ng/Kg
SL-034-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.371 ng/Kg	0.371U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.392 ng/Kg	0.392U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0450 ng/Kg	0.0450U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0708 ng/Kg	0.0708U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.173 ng/Kg	0.173U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.116 ng/Kg	0.116U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: DX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-035-SA5DN-SS-0.0-0.5(RES)	OCDF	0.750 ng/Kg	0.750U ng/Kg
SL-054-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.190 ng/Kg	0.190U ng/Kg
SL-054-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.244 ng/Kg	0.244U ng/Kg
SL-054-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.194 ng/Kg	0.194U ng/Kg
SL-054-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.184 ng/Kg	0.184U ng/Kg
SL-054-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.242 ng/Kg	0.242U ng/Kg
SL-055-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.278 ng/Kg	0.278U ng/Kg
SL-055-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.183 ng/Kg	0.183U ng/Kg
SL-055-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.240 ng/Kg	0.240U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0639 ng/Kg	0.0639U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0897 ng/Kg	0.0897U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.266 ng/Kg	0.266U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.279 ng/Kg	0.279U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.207 ng/Kg	0.207U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0747 ng/Kg	0.0747U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0951 ng/Kg	0.0951U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.153 ng/Kg	0.153U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0506 ng/Kg	0.0506U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	OCDF	1.62 ng/Kg	1.62U ng/Kg
SL-058-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.351 ng/Kg	0.351U ng/Kg
SL-058-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.345 ng/Kg	0.345U ng/Kg
SL-058-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.301 ng/Kg	0.301U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.731 ng/Kg	0.731U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0666 ng/Kg	0.0666U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.305 ng/Kg	0.305U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.117 ng/Kg	0.117U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.189 ng/Kg	0.189U ng/Kg
SL-086-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.114 ng/Kg	0.114U ng/Kg
SL-088-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.261 ng/Kg	0.261U ng/Kg
SL-088-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-088-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.240 ng/Kg	0.240U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: DX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-088-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.172 ng/Kg	0.172U ng/Kg
SL-088-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0919 ng/Kg	0.0919U ng/Kg
SL-089-SA5DN-SS-0-0.5(RES)	2,3,7,8-TCDF	0.117 ng/Kg	0.117U ng/Kg
SL-202-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.330 ng/Kg	0.330U ng/Kg
SL-202-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.203 ng/Kg	0.203U ng/Kg
SL-202-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.325 ng/Kg	0.325U ng/Kg
SL-202-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0623 ng/Kg	0.0623U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: DX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-089-SA5DN-SS-0-0.5MS	1,2,3,4,6,7,8-HPCDD	1352	286	40.00-135.00	67 (20.00)	1,2,3,4,6,7,8-HPCDD	J (all detects)
SL-089-SA5DN-SS-0-0.5MSD	1,2,3,4,6,7,8-HPCDF	155	-	40.00-135.00	28 (20.00)	1,2,3,4,6,7,8-HPCDF	OCDD No Qual, >4x
(SL-089-SA5DN-SS-0-0.5)	1,2,3,6,7,8-HXCDD	158	-	40.00-135.00	28 (20.00)	1,2,3,6,7,8-HXCDD	
	1,2,3,7,8,9-HXCDD	155	-	40.00-135.00	28 (20.00)	1,2,3,7,8,9-HXCDD	
	OCDD	15695	2327	40.00-135.00	82 (20.00)	OCDD	
	OCDF	242	-	40.00-135.00	45 (20.00)	OCDF	

Field Duplicate RPD Report

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: PrepDX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA5DN-SS-0-0.5	DUP-02-SA5DN-QC-051811			
MOISTURE	13.8	14.1	2		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA5DN-SS-0-0.5	DUP-02-SA5DN-QC-051811			
1,2,3,4,6,7,8-HPCDD	864	964	11	50.00	
1,2,3,4,6,7,8-HPCDF	52.7	55.8	6	50.00	
1,2,3,4,7,8,9-HPCDF	2.17	2.32	7	50.00	
1,2,3,4,7,8-HxCDD	16.9	16.8	1	50.00	
1,2,3,4,7,8-HXCDF	2.47	2.87	15	50.00	
1,2,3,6,7,8-HXCDD	33.8	39.2	15	50.00	
1,2,3,6,7,8-HXCDF	1.72	1.37	23	50.00	
1,2,3,7,8,9-HXCDD	36.3	37.4	3	50.00	
1,2,3,7,8,9-HXCDF	1.38	1.27	8	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	9.62	9.81	2	50.00	
1,2,3,7,8-PECDF	0.521	0.651	22	50.00	
2,3,4,6,7,8-HXCDF	2.05	1.87	9	50.00	
2,3,4,7,8-PECDF	0.623	0.644	3	50.00	
2,3,7,8-TCDD	1.08	0.967	11	50.00	
2,3,7,8-TCDF	0.117	0.109	7	50.00	
OCDD	16400	21100	25	50.00	
OCDF	167	200	18	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: DX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-02-SA5DN-QC-051811	1,2,3,4,7,8,9-HPCDF	JB	2.32	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.87	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.37	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.27	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.651	5.71	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	1.87	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.644	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.967	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.109	1.14	PQL	ng/Kg	
SL-030-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.64	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.213	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.273	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.592	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.784	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.322	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.659	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.432	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.309	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.283	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.287	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.388	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0662	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.120	1.15	PQL	ng/Kg	
	OCDF	JB	3.61	11.5	PQL	ng/Kg	
SL-031-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.26	5.78	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.314	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0416	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0799	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0524	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.212	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0616	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.202	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.122	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0773	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0611	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0882	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0964	5.78	PQL	ng/Kg	
	OCDF	JB	0.814	11.6	PQL	ng/Kg	
SL-032-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.21	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.205	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.130	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.582	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.576	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.158	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.579	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.356	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.125	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.356	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.147	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.876	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0243	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.984	1.11	PQL	ng/Kg	
	OCDF	JB	3.06	11.1	PQL	ng/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: DX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.82	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.104	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.145	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.293	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.504	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.273	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.553	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.423	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.154	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0945	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.377	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.155	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0495	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0515	1.16	PQL	ng/Kg	
	OCDF	JB	2.14	11.6	PQL	ng/Kg	
SL-034-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JBQ	1.85	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.428	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.267	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.287	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.622	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.517	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.524	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.371	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.447	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.491	5.47	PQL	ng/Kg	
	OCDF	JB	3.78	10.9	PQL	ng/Kg	
SL-035-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.86	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.392	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0450	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0708	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.173	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.445	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.554	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.751	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.116	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.163	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.109	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.101	5.62	PQL	ng/Kg	
	OCDF	JBQ	0.750	11.2	PQL	ng/Kg	
SL-054-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.59	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.190	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.292	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.859	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.10	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.244	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.871	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.556	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.194	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.184	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.242	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.345	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.276	1.10	PQL	ng/Kg	
	OCDF	JB	7.93	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: DX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.01	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.278	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.183	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.874	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.46	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.900	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.733	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.400	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.240	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.390	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.438	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.806	5.69	PQL	ng/Kg	
	OCDF	JB	5.20	11.4	PQL	ng/Kg	
SL-056-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.70	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.856	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0639	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0897	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.180	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.266	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.127	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.279	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.207	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0747	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0951	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.136	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.153	5.62	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0269	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0506	1.12	PQL	ng/Kg	
	OCDF	JB	1.62	11.2	PQL	ng/Kg	
SL-058-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.06	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.351	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.324	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.09	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.36	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.345	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.26	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.01	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.301	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.390	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.429	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.819	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0577	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.526	1.13	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: DX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-059-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.69	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.731	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0345	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0666	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.305	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.353	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.155	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.385	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.499	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.117	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.118	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.189	5.57	PQL	ng/Kg	
	OCDF	JB	2.48	11.1	PQL	ng/Kg	
SL-064-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.93	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.60	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.17	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.68	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.20	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.07	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.23	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.24	5.77	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.865	1.15	PQL	ng/Kg	
SL-065-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.05	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	5.19	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.49	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.78	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.03	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.09	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.603	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.11	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.04	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.375	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.623	1.13	PQL	ng/Kg	
SL-086-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.639	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.10	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.773	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.465	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.982	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	2.31	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.338	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.504	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.359	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.364	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.114	1.15	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX084 **Laboratory: LL**

EDD Filename: DX084_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-087-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.28	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	5.09	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.51	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.855	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.32	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.56	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.421	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.966	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.967	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.486	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.404	1.12	PQL	ng/Kg	
SL-088-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.83	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.261	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.85	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.297	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.27	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.231	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	5.22	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.58	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.29	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.369	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.240	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.172	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.131	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0919	1.11	PQL	ng/Kg	
SL-089-SA5DN-SS-0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.17	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.47	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.72	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.38	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.521	5.78	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	2.05	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.623	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	J	1.08	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.117	1.16	PQL	ng/Kg	
SL-090-SA5DN-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	3.68	6.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.938	6.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.17	6.16	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	JB	0.626	1.23	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.384	1.23	PQL	ng/Kg	
SL-202-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.91	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.330	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.334	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.620	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.87	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.372	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	1.01	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.734	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.203	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.325	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0623	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.191	1.12	PQL	ng/Kg	

LDC #: 25C107Z

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

Reviewer: OR

2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?

Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Sample ID	Finding	~~Associated Samples~~	Qualifications
		DUP-02-SA5DN-QC-05181	OCDD	7 Cal Range	J/P
		SL-064-SA5DN-SS0.0-0.5			
		SL-065-SA5DN-SS-0.0-0.5			
		SL-087-SA5DN-SS-0.0-0.5			
		SL-089-SA5DN-SS-0-0.5			
		SL-0910-SA5DN-SS-0.0-0.5	OCDD, 1,2,3,4,6,7,8-HPCDD		

LDC #: 25907Z

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: QR
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	Column ~~Associated Samples~~	Qualifications
		SL-061-SASDN-SS0.0-0.5	2,3,7,8-TCDF	SP2331	B/A

Comments: _____

SAMPLE DELIVERY GROUP

DX085

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-May-2011	SL-069-SA5DN-SB-4.0-5.0	6292043	N	METHOD	1613B	III
18-May-2011	SL-069-SA5DN-SB-9.0-10.0	6292044	N	METHOD	1613B	III
18-May-2011	SL-070-SA5DN-SB-4.0-5.0	6292045	N	METHOD	1613B	III
18-May-2011	SL-070-SA5DN-SB-9.0-10.0	6292046	N	METHOD	1613B	III
18-May-2011	SL-074-SA5DN-SB-4.0-5.0	6292047	N	METHOD	1613B	III
18-May-2011	SL-074-SA5DN-SB-9.0-10.0	6292048	N	METHOD	1613B	III
18-May-2011	SL-076-SA5DN-SB-4.0-5.0	6292049	N	METHOD	1613B	III
18-May-2011	SL-076-SA5DN-SB-4.0-5.0MS	6292050	MS	METHOD	1613B	III
18-May-2011	DUP-03-SA5DN-QC-051811	6292053	FD	METHOD	1613B	III
18-May-2011	SL-076-SA5DN-SB-9.0-10.0	6292052	N	METHOD	1613B	III
20-May-2011	SL-036-SA5DN-SS-0.0-0.5	6294861	N	METHOD	1613B	III
20-May-2011	SL-039-SA5DN-SS-0.0-0.5	6294864	N	METHOD	1613B	III
20-May-2011	SL-038-SA5DN-SS-0.0-0.5	6294863	N	METHOD	1613B	III
20-May-2011	SL-037-SA5DN-SS-0.0-0.5	6294862	N	METHOD	1613B	III
20-May-2011	SL-026-SA5DN-SS-0.0-0.5	6294857	N	METHOD	1613B	III
20-May-2011	SL-025-SA5DN-SS-0.0-0.5	6294856	N	METHOD	1613B	III
20-May-2011	SL-024-SA5DN-SS-0.0-0.5	6294855	N	METHOD	1613B	III
20-May-2011	SL-027-SA5DN-SS-0.0-0.5	6294858	N	METHOD	1613B	III
20-May-2011	SL-028-SA5DN-SS-0.0-0.5	6294859	N	METHOD	1613B	III
20-May-2011	SL-029-SA5DN-SS-0.0-0.5	6294860	N	METHOD	1613B	III
20-May-2011	SL-020-SA5DN-SS-0.0-0.5	6294854	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP-03-SA5DN-QC-051811 ***Collected:*** 5/18/2011 3:22:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.56	JB	0.0390	MDL	5.51	PQL	ng/Kg	J	Z, FD
1,2,3,4,6,7,8-HPCDF	0.348	JB	0.0140	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.163	JB	0.0287	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.185	JB	0.0271	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.233	JBQ	0.0313	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.237	JB	0.0296	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.220	JB	0.0242	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.302	JB	0.0292	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.227	JB	0.0331	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.305	JB	0.0399	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.274	JB	0.0211	MDL	5.51	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.300	JBQ	0.0249	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.261	JB	0.0207	MDL	5.51	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0729	JBQ	0.0374	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0775	JB	0.0425	MDL	1.10	PQL	ng/Kg	UJ	B, FD
OCDD	23.6	B	0.0329	MDL	11.0	PQL	ng/Kg	J	FD
OCDF	0.807	JB	0.0500	MDL	11.0	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-020-SA5DN-SS-0.0-0.5 ***Collected:*** 5/20/2011 3:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.958	JB	0.0150	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0204	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.117	JBQ	0.0269	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.749	JB	0.0350	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.345	JBQ	0.0276	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.218	JB	0.0302	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.343	JBQ	0.0268	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.217	JBQ	0.0391	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.188	JB	0.0301	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.450	JB	0.0344	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.239	JB	0.0322	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.389	JB	0.0337	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0537	JBQ	0.0240	MDL	1.03	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-020-SA5DN-SS-0.0-0.5 ***Collected:*** 5/20/2011 3:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	1.86	JB	0.0280	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-024-SA5DN-SS-0.0-0.5 ***Collected:*** 5/20/2011 1:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.15	JB	0.0407	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	JB	0.0578	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.467	JBQ	0.0309	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.409	JB	0.0276	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.75	JB	0.0585	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.436	JB	0.0312	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.378	JBQ	0.0362	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.219	JBQ	0.0211	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.430	JB	0.0265	MDL	5.63	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0736	JB	0.0198	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.181	JB	0.0520	MDL	1.13	PQL	ng/Kg	J	Z

Sample ID: SL-025-SA5DN-SS-0.0-0.5 ***Collected:*** 5/20/2011 1:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.852	JB	0.0714	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.749	JB	0.0575	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.462	JB	0.0387	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	4.67	JB	0.0591	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.389	JBQ	0.0325	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.18	JB	0.0578	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.464	JB	0.0520	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.317	JB	0.0411	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.300	JB	0.0269	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.496	JB	0.0391	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.244	JB	0.0299	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0469	JB	0.0265	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0934	JB	0.0713	MDL	1.13	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-026-SA5DN-SS-0.0-0.5 ***Collected:*** 5/20/2011 11:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.41	JB	0.0258	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.267	JB	0.0451	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.310	JB	0.0373	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.573	JB	0.0275	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.34	JB	0.0398	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.180	JBQ	0.0229	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.03	JB	0.0383	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.637	JB	0.0334	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.179	JB	0.0339	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.263	JBQ	0.0252	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.205	JB	0.0262	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.205	JB	0.0252	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0801	JB	0.0638	MDL	1.11	PQL	ng/Kg	U	B
OCDF	6.68	JB	0.0373	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-027-SA5DN-SS-0.0-0.5 ***Collected:*** 5/20/2011 2:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.58	JB	0.0282	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.211	JB	0.0364	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.235	JB	0.0383	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.08	JB	0.0386	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.787	JB	0.0411	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.169	JBQ	0.0347	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.829	JB	0.0396	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.464	JB	0.0424	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.313	JB	0.0415	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.299	JB	0.0374	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.243	JB	0.0362	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.391	JB	0.0365	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0390	JBQ	0.0303	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.237	JB	0.0696	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	4.60	JB	0.0331	MDL	11.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-028-SA5DN-SS-0.0-0.5** ***Collected:*** **5/20/2011 2:25:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.32	JB	0.0211	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.208	JB	0.0328	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.279	JBQ	0.0299	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.545	JB	0.0287	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.596	JB	0.0317	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.282	JBQ	0.0244	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.639	JB	0.0309	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.471	JB	0.0331	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.289	JB	0.0330	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.596	JB	0.0275	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.262	JB	0.0268	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.445	JB	0.0287	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0746	JB	0.0234	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.265	JB	0.0541	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	3.12	JB	0.0334	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: **SL-029-SA5DN-SS-0.0-0.5** ***Collected:*** **5/20/2011 3:00:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.47	JB	0.0214	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.254	JBQ	0.0286	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.383	JBQ	0.0376	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.649	JB	0.0314	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.714	JB	0.0407	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.416	JB	0.0298	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.723	JB	0.0400	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.534	JB	0.0351	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.533	JBQ	0.0351	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.604	JB	0.0288	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.323	JB	0.0310	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.532	JB	0.0276	MDL	5.73	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.115	JB	0.0230	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.246	JBQ	0.0489	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	3.16	JB	0.0307	MDL	11.5	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-036-SA5DN-SS-0.0-0.5** ***Collected:*** **5/20/2011 9:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.29	JB	0.0692	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.908	JB	0.0673	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.973	JB	0.0436	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.634	JB	0.0392	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.51	JB	0.0688	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.526	JB	0.0506	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.280	JB	0.0487	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.351	JBQ	0.0369	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.596	JB	0.0420	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.463	JB	0.0371	MDL	5.56	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0627	JBQ	0.0316	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.428	JBQ	0.117	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	5140	EB	0.180	MDL	11.1	PQL	ng/Kg	J	*XI

Sample ID: **SL-037-SA5DN-SS-0.0-0.5** ***Collected:*** **5/20/2011 11:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.65	JB	0.0231	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.314	JB	0.0279	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.360	JB	0.0353	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.459	JB	0.0276	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.86	JB	0.0375	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.225	JB	0.0247	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.21	JB	0.0362	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.592	JB	0.0290	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.222	JB	0.0295	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.226	JBQ	0.0235	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.282	JB	0.0230	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.431	JB	0.0239	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0707	JB	0.0197	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.284	JB	0.0534	MDL	1.14	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-038-SA5DN-SS-0.0-0.5 ***Collected:*** 5/20/2011 10:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.877	JB	0.0465	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.656	JB	0.0546	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.577	JB	0.0327	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	4.00	JB	0.0592	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.388	JB	0.0275	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.88	JB	0.0577	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.648	JB	0.0451	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.264	JB	0.0365	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.533	JB	0.0285	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.489	JB	0.0332	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.378	JBQ	0.0308	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0263	JB	0.0230	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.261	JBQ	0.0744	MDL	1.16	PQL	ng/Kg	J	Z

Sample ID: SL-039-SA5DN-SS-0.0-0.5 ***Collected:*** 5/20/2011 10:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.08	JB	0.0576	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.710	JB	0.0458	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.521	JB	0.0336	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	4.97	JB	0.0495	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.438	JB	0.0266	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.34	JB	0.0467	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.604	JB	0.0479	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.252	JBQ	0.0389	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.352	JBQ	0.0234	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.490	JB	0.0328	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.315	JBQ	0.0261	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0397	JBQ	0.0237	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.231	JB	0.0699	MDL	1.15	PQL	ng/Kg	J	Z

Sample ID: SL-069-SA5DN-SB-4.0-5.0 ***Collected:*** 5/18/2011 9:18:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.297	JB	0.0177	MDL	5.77	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-069-SA5DN-SB-4.0-5.0 ***Collected:*** 5/18/2011 9:18:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.193	JB	0.00674	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0740	JB	0.00942	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0486	JBQ	0.0152	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0853	JBQ	0.0137	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.245	JBQ	0.0167	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0798	JBQ	0.0124	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.430	JB	0.0156	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.455	JB	0.0151	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0920	JB	0.0217	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.121	JBQ	0.0105	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0829	JB	0.0122	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.127	JB	0.0101	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0355	JB	0.0167	MDL	1.15	PQL	ng/Kg	U	B
OCDD	0.893	JBQ	0.0136	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.238	JB	0.0202	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-069-SA5DN-SB-9.0-10.0 ***Collected:*** 5/18/2011 9:24:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.308	JB	0.0233	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.203	JB	0.0109	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.117	JBQ	0.0166	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0645	JBQ	0.0197	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0881	JBQ	0.0165	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0987	JB	0.0214	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0788	JBQ	0.0149	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.133	JB	0.0207	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.157	JB	0.0194	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.111	JBQ	0.0253	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.108	JB	0.0134	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.120	JB	0.0157	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.116	JB	0.0131	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0472	JB	0.0257	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0288	JBQ	0.0242	MDL	1.14	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-069-SA5DN-SB-9.0-10.0 *Collected:* 5/18/2011 9:24:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.708	JB	0.0202	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.255	JBQ	0.0264	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-070-SA5DN-SB-4.0-5.0 *Collected:* 5/18/2011 10:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.256	JB	0.0220	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.165	JB	0.0104	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0498	JB	0.0142	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0630	JBQ	0.0195	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0815	JBQ	0.0164	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.189	JB	0.0202	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0862	JB	0.0143	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.308	JB	0.0190	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.310	JBQ	0.0195	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0782	JBQ	0.0243	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0948	JBQ	0.0136	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.102	JBQ	0.0152	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.128	JB	0.0128	MDL	5.65	PQL	ng/Kg	U	B
OCDD	0.831	JB	0.0200	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.182	JBQ	0.0236	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-070-SA5DN-SB-9.0-10.0 *Collected:* 5/18/2011 10:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.273	JB	0.0200	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.168	JB	0.00934	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0994	JB	0.0143	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0506	JBQ	0.0191	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0792	JB	0.0148	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0978	JB	0.0203	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0886	JBQ	0.0129	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0869	JB	0.0190	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0873	JB	0.0176	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0873	JB	0.0202	MDL	5.74	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-070-SA5DN-SB-9.0-10.0 *Collected:* 5/18/2011 10:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0790	JB	0.0127	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.105	JB	0.0142	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.130	JBQ	0.0130	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0302	JBQ	0.0223	MDL	1.15	PQL	ng/Kg	U	B
OCDD	0.837	JB	0.0182	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.215	JBQ	0.0224	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-074-SA5DN-SB-4.0-5.0 *Collected:* 5/18/2011 12:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.377	JBQ	0.0316	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.168	JB	0.0136	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.169	JB	0.0268	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.115	JBQ	0.0322	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.141	JB	0.0267	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.279	JB	0.0345	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.127	JB	0.0205	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.400	JB	0.0340	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.474	JB	0.0342	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.134	JB	0.0373	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.187	JBQ	0.0214	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.164	JB	0.0227	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.210	JBQ	0.0219	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0491	JBQ	0.0381	MDL	1.12	PQL	ng/Kg	U	B
OCDD	1.29	JB	0.0285	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.220	JBQ	0.0513	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-074-SA5DN-SB-9.0-10.0 *Collected:* 5/18/2011 12:48:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.345	JBQ	0.0247	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.237	JB	0.00932	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.129	JB	0.0184	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.193	JB	0.0238	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.212	JBQ	0.0200	MDL	5.67	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-074-SA5DN-SB-9.0-10.0 ***Collected:*** 5/18/2011 12:48:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.166	JB	0.0248	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.218	JB	0.0156	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.200	JB	0.0232	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.243	JBQ	0.0263	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.231	JBQ	0.0289	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.267	JBQ	0.0178	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.211	JB	0.0188	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.245	JBQ	0.0184	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0836	JB	0.0303	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0533	JB	0.0333	MDL	1.13	PQL	ng/Kg	U	B
OCDD	0.875	JB	0.0207	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.333	JB	0.0351	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-076-SA5DN-SB-4.0-5.0 ***Collected:*** 5/18/2011 3:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.12	JB	0.0344	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,6,7,8-HPCDF	0.832	JB	0.0123	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.191	JB	0.0241	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.283	JB	0.0270	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.422	JB	0.0240	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.474	JB	0.0281	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.426	JB	0.0183	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.493	JB	0.0273	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.388	JB	0.0267	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.510	JBQ	0.0236	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.571	JB	0.0149	MDL	5.45	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.307	JBQ	0.0186	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.485	JB	0.0162	MDL	5.45	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.112	JB	0.0248	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.194	JB	0.0294	MDL	1.09	PQL	ng/Kg	J	Z, FD
OCDD	78.7	B	0.0328	MDL	10.9	PQL	ng/Kg	J	FD
OCDF	1.63	JB	0.0312	MDL	10.9	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-076-SA5DN-SB-9.0-10.0** ***Collected:*** **5/18/2011 3:26:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,4,6,7,8-HPCDF	1.14	JB	0.0128	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.424	JB	0.0284	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.390	JB	0.0267	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.435	JB	0.0297	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.598	JB	0.0282	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.405	JB	0.0231	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.506	JB	0.0272	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.498	JB	0.0398	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.458	JB	0.0304	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.488	JBQ	0.0162	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.422	JB	0.0275	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.443	JB	0.0175	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.130	JB	0.0272	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0587	JB	0.0319	MDL	1.13	PQL	ng/Kg	U	B
OCDF	3.29	JB	0.0330	MDL	11.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: PrepDX085_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085_v1

eQAPP Name: CDM_SSFL_110509

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085_v1

eQAPP Name: CDM_SSFL_110509

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX085

Method Blank Outlier Report

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: DX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1480B370133	6/4/2011 1:33:00 AM	1,2,3,4,6,7,8-HPCDD	0.291 ng/Kg	DUP-03-SA5DN-QC-051811
		1,2,3,4,6,7,8-HPCDF	0.196 ng/Kg	SL-020-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.166 ng/Kg	SL-024-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0860 ng/Kg	SL-025-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.149 ng/Kg	SL-026-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0968 ng/Kg	SL-027-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.118 ng/Kg	SL-028-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.109 ng/Kg	SL-029-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.230 ng/Kg	SL-036-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.107 ng/Kg	SL-037-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.110 ng/Kg	SL-038-SA5DN-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.165 ng/Kg	SL-039-SA5DN-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.168 ng/Kg	SL-069-SA5DN-SB-4.0-5.0
		2,3,7,8-TCDD	0.0875 ng/Kg	SL-069-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDF	0.0262 ng/Kg	SL-070-SA5DN-SB-4.0-5.0
		OCDD	0.555 ng/Kg	SL-070-SA5DN-SB-9.0-10.0
		OCDF	0.516 ng/Kg	SL-074-SA5DN-SB-4.0-5.0
				SL-074-SA5DN-SB-9.0-10.0
				SL-076-SA5DN-SB-4.0-5.0
				SL-076-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-03-SA5DN-QC-051811(RES)	1,2,3,4,6,7,8-HPCDF	0.348 ng/Kg	0.348U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,4,7,8,9-HPCDF	0.163 ng/Kg	0.163U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,4,7,8-HxCDD	0.185 ng/Kg	0.185U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,4,7,8-HXCDF	0.233 ng/Kg	0.233U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,6,7,8-HXCDD	0.237 ng/Kg	0.237U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,6,7,8-HXCDF	0.220 ng/Kg	0.220U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,7,8,9-HXCDD	0.302 ng/Kg	0.302U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,7,8,9-HXCDF	0.227 ng/Kg	0.227U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,7,8-PECDD	0.305 ng/Kg	0.305U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,7,8-PECDF	0.274 ng/Kg	0.274U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	2,3,4,6,7,8-HXCDF	0.300 ng/Kg	0.300U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	2,3,4,7,8-PECDF	0.261 ng/Kg	0.261U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	2,3,7,8-TCDD	0.0729 ng/Kg	0.0729U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	2,3,7,8-TCDF	0.0775 ng/Kg	0.0775U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	OCDF	0.807 ng/Kg	0.807U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.958 ng/Kg	0.958U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.117 ng/Kg	0.117U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.345 ng/Kg	0.345U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.218 ng/Kg	0.218U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.343 ng/Kg	0.343U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.217 ng/Kg	0.217U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.188 ng/Kg	0.188U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.450 ng/Kg	0.450U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085_v1

eQAPP Name: CDM_SSFL_110509

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-020-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.239 ng/Kg	0.239U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.389 ng/Kg	0.389U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0537 ng/Kg	0.0537U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	OCDF	1.86 ng/Kg	1.86U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.467 ng/Kg	0.467U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.409 ng/Kg	0.409U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.436 ng/Kg	0.436U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.378 ng/Kg	0.378U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.219 ng/Kg	0.219U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.430 ng/Kg	0.430U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0736 ng/Kg	0.0736U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.462 ng/Kg	0.462U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.389 ng/Kg	0.389U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.464 ng/Kg	0.464U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.317 ng/Kg	0.317U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.300 ng/Kg	0.300U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.496 ng/Kg	0.496U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.244 ng/Kg	0.244U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0469 ng/Kg	0.0469U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0934 ng/Kg	0.0934U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.267 ng/Kg	0.267U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.310 ng/Kg	0.310U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.573 ng/Kg	0.573U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.637 ng/Kg	0.637U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.179 ng/Kg	0.179U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.263 ng/Kg	0.263U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.205 ng/Kg	0.205U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.205 ng/Kg	0.205U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0801 ng/Kg	0.0801U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.211 ng/Kg	0.211U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.235 ng/Kg	0.235U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.464 ng/Kg	0.464U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.313 ng/Kg	0.313U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.299 ng/Kg	0.299U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.243 ng/Kg	0.243U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: DX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-027-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.391 ng/Kg	0.391U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0390 ng/Kg	0.0390U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.279 ng/Kg	0.279U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.545 ng/Kg	0.545U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.282 ng/Kg	0.282U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.471 ng/Kg	0.471U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.289 ng/Kg	0.289U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.262 ng/Kg	0.262U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.445 ng/Kg	0.445U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0746 ng/Kg	0.0746U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.254 ng/Kg	0.254U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.383 ng/Kg	0.383U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.649 ng/Kg	0.649U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.416 ng/Kg	0.416U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.534 ng/Kg	0.534U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.533 ng/Kg	0.533U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.323 ng/Kg	0.323U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.532 ng/Kg	0.532U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.115 ng/Kg	0.115U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.526 ng/Kg	0.526U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.280 ng/Kg	0.280U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.351 ng/Kg	0.351U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.596 ng/Kg	0.596U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.463 ng/Kg	0.463U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0627 ng/Kg	0.0627U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.314 ng/Kg	0.314U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.360 ng/Kg	0.360U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.459 ng/Kg	0.459U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.225 ng/Kg	0.225U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.592 ng/Kg	0.592U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.222 ng/Kg	0.222U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.226 ng/Kg	0.226U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.282 ng/Kg	0.282U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.431 ng/Kg	0.431U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0707 ng/Kg	0.0707U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.577 ng/Kg	0.577U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-038-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.388 ng/Kg	0.388U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.648 ng/Kg	0.648U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.264 ng/Kg	0.264U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.533 ng/Kg	0.533U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.489 ng/Kg	0.489U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.378 ng/Kg	0.378U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0263 ng/Kg	0.0263U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.521 ng/Kg	0.521U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.438 ng/Kg	0.438U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.604 ng/Kg	0.604U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.252 ng/Kg	0.252U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.352 ng/Kg	0.352U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.490 ng/Kg	0.490U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.315 ng/Kg	0.315U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.297 ng/Kg	0.297U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.193 ng/Kg	0.193U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0740 ng/Kg	0.0740U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0486 ng/Kg	0.0486U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0853 ng/Kg	0.0853U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.245 ng/Kg	0.245U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0798 ng/Kg	0.0798U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.430 ng/Kg	0.430U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.455 ng/Kg	0.455U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0920 ng/Kg	0.0920U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0829 ng/Kg	0.0829U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.127 ng/Kg	0.127U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	OCDD	0.893 ng/Kg	0.893U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	OCDF	0.238 ng/Kg	0.238U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.308 ng/Kg	0.308U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.203 ng/Kg	0.203U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.117 ng/Kg	0.117U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0645 ng/Kg	0.0645U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0881 ng/Kg	0.0881U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0987 ng/Kg	0.0987U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: DX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0788 ng/Kg	0.0788U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.133 ng/Kg	0.133U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.111 ng/Kg	0.111U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.108 ng/Kg	0.108U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.116 ng/Kg	0.116U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0472 ng/Kg	0.0472U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0288 ng/Kg	0.0288U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	OCDD	0.708 ng/Kg	0.708U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	OCDF	0.255 ng/Kg	0.255U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.256 ng/Kg	0.256U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0630 ng/Kg	0.0630U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0815 ng/Kg	0.0815U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.189 ng/Kg	0.189U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.308 ng/Kg	0.308U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.310 ng/Kg	0.310U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0782 ng/Kg	0.0782U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0948 ng/Kg	0.0948U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.128 ng/Kg	0.128U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	OCDD	0.831 ng/Kg	0.831U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	OCDF	0.182 ng/Kg	0.182U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.273 ng/Kg	0.273U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0994 ng/Kg	0.0994U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0506 ng/Kg	0.0506U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0792 ng/Kg	0.0792U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0978 ng/Kg	0.0978U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0886 ng/Kg	0.0886U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0869 ng/Kg	0.0869U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0873 ng/Kg	0.0873U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0873 ng/Kg	0.0873U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0790 ng/Kg	0.0790U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085_v1

eQAPP Name: CDM_SSFL_110509

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-070-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.130 ng/Kg	0.130U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0302 ng/Kg	0.0302U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	OCDD	0.837 ng/Kg	0.837U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	OCDF	0.215 ng/Kg	0.215U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.377 ng/Kg	0.377U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.169 ng/Kg	0.169U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.115 ng/Kg	0.115U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.141 ng/Kg	0.141U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.279 ng/Kg	0.279U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.400 ng/Kg	0.400U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.474 ng/Kg	0.474U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.134 ng/Kg	0.134U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.187 ng/Kg	0.187U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.164 ng/Kg	0.164U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.210 ng/Kg	0.210U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0491 ng/Kg	0.0491U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	OCDD	1.29 ng/Kg	1.29U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	OCDF	0.220 ng/Kg	0.220U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.345 ng/Kg	0.345U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.237 ng/Kg	0.237U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.193 ng/Kg	0.193U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.166 ng/Kg	0.166U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.218 ng/Kg	0.218U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.200 ng/Kg	0.200U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.243 ng/Kg	0.243U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.231 ng/Kg	0.231U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.267 ng/Kg	0.267U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.211 ng/Kg	0.211U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.245 ng/Kg	0.245U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0836 ng/Kg	0.0836U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	OCDD	0.875 ng/Kg	0.875U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-074-SA5DN-SB-9.0-10.0(RES)	OCDF	0.333 ng/Kg	0.333U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.832 ng/Kg	0.832U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.283 ng/Kg	0.283U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.422 ng/Kg	0.422U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.474 ng/Kg	0.474U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.426 ng/Kg	0.426U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.493 ng/Kg	0.493U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.388 ng/Kg	0.388U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.510 ng/Kg	0.510U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.307 ng/Kg	0.307U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.485 ng/Kg	0.485U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.112 ng/Kg	0.112U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	OCDF	1.63 ng/Kg	1.63U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.424 ng/Kg	0.424U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.390 ng/Kg	0.390U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.435 ng/Kg	0.435U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.405 ng/Kg	0.405U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.506 ng/Kg	0.506U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.498 ng/Kg	0.498U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.458 ng/Kg	0.458U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.488 ng/Kg	0.488U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.422 ng/Kg	0.422U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.443 ng/Kg	0.443U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.130 ng/Kg	0.130U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0587 ng/Kg	0.0587U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085_v1

eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-076-SA5DN-SB-4.0-5.0	DUP-03-SA5DN-QC-051811			
MOISTURE	9.5	11.2	16		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-076-SA5DN-SB-4.0-5.0	DUP-03-SA5DN-QC-051811			
1,2,3,4,7,8,9-HPCDF	0.191	0.163	16	50.00	
1,2,3,4,7,8-HxCDD	0.283	0.185	42	50.00	
1,2,3,7,8,9-HXCDD	0.493	0.302	48	50.00	No Qualifiers Applied
2,3,4,6,7,8-HXCDF	0.307	0.300	2	50.00	
2,3,7,8-TCDD	0.112	0.0729	42	50.00	
1,2,3,4,6,7,8-HPCDD	5.12	1.56	107	50.00	
1,2,3,4,6,7,8-HPCDF	0.832	0.348	82	50.00	
1,2,3,4,7,8-HXCDF	0.422	0.233	58	50.00	
1,2,3,6,7,8-HXCDD	0.474	0.237	67	50.00	
1,2,3,6,7,8-HXCDF	0.426	0.220	64	50.00	
1,2,3,7,8,9-HXCDF	0.388	0.227	52	50.00	J(all detects)
1,2,3,7,8-PECDD	0.510	0.305	50	50.00	
1,2,3,7,8-PECDF	0.571	0.274	70	50.00	
2,3,4,7,8-PECDF	0.485	0.261	60	50.00	
2,3,7,8-TCDF	0.194	0.0775	86	50.00	
OCDD	78.7	23.6	108	50.00	
OCDF	1.63	0.807	68	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-03-SA5DN-QC-051811	1,2,3,4,6,7,8-HPCDD	JB	1.56	5.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.348	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.163	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.185	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.233	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.237	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.220	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.302	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.227	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.305	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.274	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.300	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.261	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0729	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0775	1.10	PQL	ng/Kg	
	OCDF	JB	0.807	11.0	PQL	ng/Kg	
SL-020-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.958	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.121	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.117	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.749	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.345	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.218	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.343	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.217	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.188	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.450	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.239	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.389	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0537	1.03	PQL	ng/Kg	
	OCDF	JB	1.86	10.3	PQL	ng/Kg	
SL-024-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.15	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.08	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.467	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.409	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.75	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.436	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.378	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.219	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.430	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0736	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.181	1.13	PQL	ng/Kg	
SL-025-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.852	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.749	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.462	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.67	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.389	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.18	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.464	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.317	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.300	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.496	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.244	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0469	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0934	1.13	PQL	ng/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: DX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.41	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.267	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.310	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.573	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.34	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.180	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.03	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.637	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.179	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.263	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.205	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.205	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0801	1.11	PQL	ng/Kg	
	OCDF	JB	6.68	11.1	PQL	ng/Kg	
SL-027-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.58	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.211	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.235	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.08	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.787	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.169	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.829	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.464	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.313	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.299	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.243	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.391	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0390	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.237	1.16	PQL	ng/Kg	
	OCDF	JB	4.60	11.6	PQL	ng/Kg	
SL-028-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.32	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.208	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.279	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.545	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.596	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.282	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.639	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.471	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.289	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.596	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.262	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.445	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0746	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.265	1.14	PQL	ng/Kg	
	OCDF	JB	3.12	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: DX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-029-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.47	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.254	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.383	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.649	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.714	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.416	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.723	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.534	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.533	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.604	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.323	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.532	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.115	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.246	1.15	PQL	ng/Kg	
	OCDF	JB	3.16	11.5	PQL	ng/Kg	
SL-036-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.29	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.908	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.973	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.634	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.51	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.526	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.280	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.351	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.596	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.463	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0627	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.428	1.11	PQL	ng/Kg	
SL-037-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.65	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.314	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.360	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.459	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.86	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.225	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.21	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.592	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.222	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.226	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.282	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.431	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0707	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.284	1.14	PQL	ng/Kg	
SL-038-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.877	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.656	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.577	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.00	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.388	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.88	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.648	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.264	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.533	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.489	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.378	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0263	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.261	1.16	PQL	ng/Kg	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX085 **Laboratory: LL**

EDD Filename: DX085_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.08	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.710	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.521	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.97	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.438	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.34	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.604	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.252	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.352	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.490	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.315	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0397	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.231	1.15	PQL	ng/Kg	
SL-069-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.297	5.77	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.193	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0740	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0486	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0853	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.245	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0798	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.430	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.455	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0920	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.121	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0829	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.127	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0355	1.15	PQL	ng/Kg	
	OCDD	JBQ	0.893	11.5	PQL	ng/Kg	
	OCDF	JB	0.238	11.5	PQL	ng/Kg	
SL-069-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.308	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.203	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.117	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0645	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0881	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0987	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0788	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.133	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.157	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.111	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.108	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.120	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.116	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0472	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0288	1.14	PQL	ng/Kg	
	OCDD	JB	0.708	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.255	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-070-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.256	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.165	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0498	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0630	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0815	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.189	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0862	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.308	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.310	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0782	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0948	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.102	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.128	5.65	PQL	ng/Kg	
	OCDD	JB	0.831	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.182	11.3	PQL	ng/Kg	
SL-070-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.273	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.168	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0994	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0506	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0792	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0978	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0886	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0869	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0873	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0873	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0790	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.105	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.130	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0302	1.15	PQL	ng/Kg	
	OCDD	JB	0.837	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.215	11.5	PQL	ng/Kg	
SL-074-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.377	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.168	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.169	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.115	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.141	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.279	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.127	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.400	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.474	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.134	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.187	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.164	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.210	5.59	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0491	1.12	PQL	ng/Kg	
	OCDD	JB	1.29	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.220	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-074-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.345	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.237	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.129	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.193	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.212	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.166	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.218	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.200	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.243	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.231	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.267	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.211	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.245	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0836	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0533	1.13	PQL	ng/Kg	
	OCDD	JB	0.875	11.3	PQL	ng/Kg	
	OCDF	JB	0.333	11.3	PQL	ng/Kg	
SL-076-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	5.12	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.832	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.191	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.283	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.422	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.474	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.426	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.493	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.388	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.510	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.571	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.307	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.485	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.112	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.194	1.09	PQL	ng/Kg	
	OCDF	JB	1.63	10.9	PQL	ng/Kg	
SL-076-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.14	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.424	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.390	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.435	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.598	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.405	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.506	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.498	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.458	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.488	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.422	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.443	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.130	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0587	1.13	PQL	ng/Kg	
	OCDF	JB	3.29	11.3	PQL	ng/Kg	

LDC #: 25907AA

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

Reviewer: CR

2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?

Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Sample ID	Finding	~~Associated Samples~~	Qualifications
		SL-036-SA5DN-SS-0.00.5	OCDD	7 Cal Range	J/P

SAMPLE DELIVERY GROUP

DX086

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-May-2011	SL-047-SA5DN-SS-0.0-0.5	6293492	N	METHOD	1613B	III
19-May-2011	SL-048-SA5DN-SS-0.0-0.5	6293493	N	METHOD	1613B	III
19-May-2011	SL-046-SA5DN-SS-0.0-0.5	6293491	N	METHOD	1613B	III
19-May-2011	SL-043-SA5DN-SS-0.0-0.5	6293487	N	METHOD	1613B	III
19-May-2011	SL-043-SA5DN-SS-0.0-0.5MS	6293488	MS	METHOD	1613B	III
19-May-2011	DUP-04-SA5DN-QC-051911	6293495	FD	METHOD	1613B	III
19-May-2011	SL-042-SA5DN-SS-0.0-0.5	6293486	N	METHOD	1613B	III
19-May-2011	SL-041-SA5DN-SS-0.0-0.5	6293485	N	METHOD	1613B	III
19-May-2011	SL-045-SA5DN-SS-0.0-0.5	6293490	N	METHOD	1613B	III
19-May-2011	SL-049-SA5DN-SS-0.0-0.5	6293494	N	METHOD	1613B	III
20-May-2011	SL-050-SA5DN-SS-0.0-0.5	6294867	N	METHOD	1613B	III
20-May-2011	SL-051-SA5DN-SS-0.0-0.5	6294868	N	METHOD	1613B	III
20-May-2011	SL-040-SA5DN-SS-0.0-0.5	6294865	N	METHOD	1613B	III
20-May-2011	SL-065-SA5DN-SB-4.0-5.0	6294870	N	METHOD	1613B	III
20-May-2011	SL-065-SA5DN-SB-7.0-8.0	6294871	N	METHOD	1613B	III
20-May-2011	SL-064-SA5DN-SB-4.0-5.0	6294869	N	METHOD	1613B	III
20-May-2011	SL-088-SA5DN-SB-4.0-5.0	6294873	N	METHOD	1613B	III
20-May-2011	SL-044-SA5DN-SS-0.0-0.5	6294866	N	METHOD	1613B	III
20-May-2011	SL-086-SA5DN-SB-4.0-5.0	6294872	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP-04-SA5DN-QC-051911 *Collected:* 5/19/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.79	JB	0.0411	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.371	JB	0.0485	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.614	JB	0.0720	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.639	JB	0.0487	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.79	JB	0.0746	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.235	JBQ	0.0420	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.41	JB	0.0715	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.393	JBQ	0.0417	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.320	JBQ	0.0286	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.107	JBQ	0.0265	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.307	JB	0.0329	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.214	JB	0.0272	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0532	JQ	0.0147	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0428	U	0.0428	MDL	1.15	PQL	ng/Kg	UJ	FD

Sample ID: SL-040-SA5DN-SS-0.0-0.5 *Collected:* 5/20/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.662	JB	0.0808	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.648	JBQ	0.0952	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.149	JB	0.0627	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.93	JB	0.0953	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.258	JB	0.0534	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.88	JB	0.0863	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.459	JB	0.0475	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.197	JB	0.0279	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0893	JBQ	0.0258	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.264	JB	0.0394	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.239	JBQ	0.0271	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0210	JQ	0.0165	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.208	JB	0.0509	MDL	1.16	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-041-SA5DN-SS-0.0-0.5** ***Collected:*** **5/19/2011 10:28:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.878	JB	0.0402	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.996	JB	0.0540	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.651	JB	0.0303	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.377	JB	0.0292	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.77	JB	0.0574	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.660	JB	0.0334	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.347	JBQ	0.0321	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.243	JBQ	0.0273	MDL	5.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.442	JB	0.0307	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.560	JB	0.0248	MDL	5.83	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0508	JB	0.0208	MDL	1.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.375	J	0.0692	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	5340	EB	0.116	MDL	11.7	PQL	ng/Kg	J	*XI

Sample ID: **SL-042-SA5DN-SS-0.0-0.5** ***Collected:*** **5/19/2011 10:10:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.65	JB	0.0447	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.442	JB	0.0566	MDL	9.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.567	JB	0.0804	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.424	JBQ	0.0494	MDL	9.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	2.12	JB	0.0832	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.282	JB	0.0444	MDL	9.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.47	JB	0.0802	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.625	JB	0.0466	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.428	JBQ	0.0516	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.293	JB	0.0418	MDL	9.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.285	JBQ	0.0412	MDL	9.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.366	JBQ	0.0377	MDL	9.18	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0895	JBQ	0.0405	MDL	1.84	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.227	J	0.102	MDL	1.84	PQL	ng/Kg	J	Z
OCDF	11.8	JB	0.0567	MDL	18.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory:** LL

EDD Filename: DX086_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-043-SA5DN-SS-0.0-0.5 ***Collected:*** 5/19/2011 9:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.81	JB	0.0265	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.407	JB	0.0332	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.580	JB	0.0384	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.522	JB	0.0260	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.77	JB	0.0411	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.241	JB	0.0231	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.49	JB	0.0399	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.420	JB	0.0275	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.337	JB	0.0291	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.106	JBQ	0.0268	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.333	JB	0.0232	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.235	JBQ	0.0249	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0353	JB	0.0197	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.196	JQ	0.0445	MDL	1.13	PQL	ng/Kg	J	Z, FD

Sample ID: SL-044-SA5DN-SS-0.0-0.5 ***Collected:*** 5/20/2011 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.30	JB	0.0202	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.229	JBQ	0.0268	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.203	JBQ	0.0321	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.599	JB	0.0288	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.853	JB	0.0334	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.193	JBQ	0.0264	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.664	JBQ	0.0315	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.437	JB	0.0318	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.136	JBQ	0.0276	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.137	JB	0.0265	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.216	JB	0.0270	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.447	JBQ	0.0240	MDL	5.56	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0661	JB	0.0175	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.168	J	0.0526	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	6.46	JB	0.0271	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: **SL-045-SA5DN-SS-0.0-0.5** ***Collected:*** **5/19/2011 10:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.51	JB	0.0217	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.499	JB	0.0264	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.619	JB	0.0347	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.556	JB	0.0218	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.26	JB	0.0356	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.352	JBQ	0.0208	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.59	JB	0.0342	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.719	JB	0.0246	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.401	JBQ	0.0309	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.471	JB	0.0247	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.361	JB	0.0202	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.458	JB	0.0236	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0542	JBQ	0.0165	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.317	JQ	0.0595	MDL	1.15	PQL	ng/Kg	J	Z

Sample ID: **SL-046-SA5DN-SS-0.0-0.5** ***Collected:*** **5/19/2011 9:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.630	JB	0.0426	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.886	JB	0.0528	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.518	JB	0.0283	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.24	JB	0.0578	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.406	JB	0.0265	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.29	JB	0.0547	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.721	JBQ	0.0303	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.563	JBQ	0.0385	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.223	JB	0.0286	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.529	JB	0.0261	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.539	JB	0.0270	MDL	5.61	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.150	JBQ	0.0253	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.347	JQ	0.0536	MDL	1.12	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-047-SA5DN-SS-0.0-0.5** ***Collected:*** **5/19/2011 8:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.434	JB	0.0251	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.18	JB	0.0271	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.587	JBQ	0.0237	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.03	JB	0.0274	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.381	JB	0.0212	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.63	JB	0.0266	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.442	JB	0.0210	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.745	JB	0.0326	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.299	JB	0.0202	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.494	JBQ	0.0187	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.404	JBQ	0.0183	MDL	5.39	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.155	J	0.0318	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: **SL-048-SA5DN-SS-0.0-0.5** ***Collected:*** **5/19/2011 8:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.98	JB	0.0671	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.68	JB	0.0765	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.75	JB	0.0631	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.09	JB	0.0630	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.714	JB	0.0688	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.38	JB	0.0710	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.35	JB	0.0598	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.39	JB	0.0596	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.02	JBQ	0.0552	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.164	JB	0.0183	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.698	J	0.118	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	4330	EB	0.179	MDL	10.7	PQL	ng/Kg	J	*XI

Sample ID: **SL-049-SA5DN-SS-0.0-0.5** ***Collected:*** **5/19/2011 11:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.08	JB	0.0319	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.408	JB	0.0371	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.724	JB	0.0594	MDL	5.45	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-049-SA5DN-SS-0.0-0.5** ***Collected:*** **5/19/2011 11:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.759	JB	0.0484	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.51	JB	0.0630	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.557	JB	0.0470	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.23	JB	0.0601	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.29	JB	0.0484	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.478	JBQ	0.0526	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.01	JB	0.0504	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.433	JBQ	0.0441	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.801	JB	0.0465	MDL	5.45	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0302	JBQ	0.0149	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.842	J	0.101	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	9.69	JB	0.0421	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: **SL-050-SA5DN-SS-0.0-0.5** ***Collected:*** **5/20/2011 8:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.29	JBQ	0.144	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.21	JB	0.0977	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.20	JB	0.0946	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.41	JB	0.0893	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	5.08	JB	0.105	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.03	JB	0.115	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.33	JB	0.0902	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.356	JB	0.0837	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.17	JB	0.0928	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.08	JB	0.0791	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.122	JB	0.0247	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: **SL-051-SA5DN-SS-0.0-0.5** ***Collected:*** **5/20/2011 9:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.15	JB	0.0533	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.245	JB	0.0458	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.383	JB	0.0969	MDL	5.36	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-051-SA5DN-SS-0.0-0.5 **Collected:** 5/20/2011 9:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.470	JBQ	0.0721	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.74	JB	0.0981	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.399	JB	0.0589	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.45	JB	0.0827	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.959	JB	0.0411	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.316	JB	0.0384	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.215	JBQ	0.0280	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.305	JB	0.0364	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.529	JB	0.0262	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.376	JB	0.0504	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	5.76	JB	0.0538	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-064-SA5DN-SB-4.0-5.0 **Collected:** 5/20/2011 11:34:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.504	JB	0.0223	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.249	JBQ	0.0153	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0939	JBQ	0.0213	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0620	JBQ	0.0182	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.115	JB	0.0319	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.115	JB	0.0201	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0937	JB	0.0230	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.119	JBQ	0.0176	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.168	JB	0.0176	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0716	JBQ	0.0174	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0909	JBQ	0.00926	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.118	JB	0.0119	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0984	JBQ	0.0102	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0298	JBQ	0.0153	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0161	JQ	0.0160	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	4.59	JB	0.0282	MDL	11.5	PQL	ng/Kg	J	Z
OCDF	0.391	JB	0.0438	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory:** LL

EDD Filename: DX086_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-065-SA5DN-SB-4.0-5.0 **Collected:** 5/20/2011 10:44:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.543	JB	0.0497	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0447	JBQ	0.0199	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0364	JB	0.0170	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.108	JB	0.0267	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.209	JB	0.0257	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.231	JB	0.0214	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0548	JBQ	0.0285	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0461	JBQ	0.0135	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0571	JBQ	0.0139	MDL	5.62	PQL	ng/Kg	U	B
OCDD	1.52	JB	0.0590	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.255	JBQ	0.0806	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-065-SA5DN-SB-7.0-8.0 **Collected:** 5/20/2011 10:52:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.372	JB	0.0381	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0291	JBQ	0.0121	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0471	JBQ	0.0358	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0138	JBQ	0.0123	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0408	JBQ	0.0164	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0165	JB	0.00963	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0629	JBQ	0.0155	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0522	JB	0.0165	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0187	JBQ	0.00831	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0430	JB	0.00952	MDL	5.52	PQL	ng/Kg	U	B
OCDD	0.738	JB	0.0439	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.133	JBQ	0.0730	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-086-SA5DN-SB-4.0-5.0 **Collected:** 5/20/2011 3:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.00	JB	0.0206	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.174	JB	0.00709	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0688	JBQ	0.0165	MDL	5.59	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-086-SA5DN-SB-4.0-5.0** ***Collected:*** **5/20/2011 3:35:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0339	JBQ	0.0160	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0422	JB	0.0125	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0875	JBQ	0.0178	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0396	JBQ	0.00950	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.105	JB	0.0161	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.111	JBQ	0.0135	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0321	JBQ	0.0169	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0458	JBQ	0.00858	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0429	JBQ	0.00973	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0602	JB	0.00950	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0214	JQ	0.0144	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	0.362	JB	0.0363	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: **SL-088-SA5DN-SB-4.0-5.0** ***Collected:*** **5/20/2011 2:04:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.317	JBQ	0.0202	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0768	JB	0.00754	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0821	JB	0.0157	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0244	JB	0.0147	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0412	JBQ	0.0140	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0400	JBQ	0.0153	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0402	JB	0.0103	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0400	JBQ	0.0146	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0508	JBQ	0.0127	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0176	JB	0.0172	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0381	JB	0.00837	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0431	JBQ	0.00837	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0710	JBQ	0.00897	MDL	5.90	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0199	JBQ	0.0154	MDL	1.18	PQL	ng/Kg	U	B
OCDD	2.39	JB	0.0206	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.198	JBQ	0.0410	MDL	11.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX086

Method Blank Outlier Report

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: PrepDX086_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1530B370231	6/5/2011 2:31:00 AM	1,2,3,4,6,7,8-HPCDD	0.270 ng/Kg	SL-041-SA5DN-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.178 ng/Kg	SL-042-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.137 ng/Kg	SL-043-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0425 ng/Kg	SL-044-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0952 ng/Kg	SL-045-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0671 ng/Kg	SL-046-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0873 ng/Kg	SL-047-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0834 ng/Kg	SL-064-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0864 ng/Kg	SL-086-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0737 ng/Kg	SL-088-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0439 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0909 ng/Kg	
		2,3,4,7,8-PECDF	0.120 ng/Kg	
		2,3,7,8-TCDD	0.0252 ng/Kg	
		OCDD	0.693 ng/Kg	
		OCDF	0.420 ng/Kg	
BLK1600B371450	6/13/2011 2:50:00 PM	1,2,3,4,6,7,8-HPCDD	0.233 ng/Kg	DUP-04-SA5DN-QC-051911
		1,2,3,4,6,7,8-HPCDF	0.124 ng/Kg	SL-040-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0756 ng/Kg	SL-051-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0355 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0287 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0363 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0252 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0402 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0730 ng/Kg	
		1,2,3,7,8-PECDD	0.0141 ng/Kg	
		1,2,3,7,8-PECDF	0.0432 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0597 ng/Kg	
		2,3,4,7,8-PECDF	0.0599 ng/Kg	
		2,3,7,8-TCDF	0.0157 ng/Kg	
		OCDD	0.463 ng/Kg	
		OCDF	0.300 ng/Kg	
BLK1660B372012	6/16/2011 8:12:00 PM	1,2,3,4,6,7,8-HPCDD	0.285 ng/Kg	SL-048-SA5DN-SS-0.0-0.5
		1,2,3,4,6,7,8-HPCDF	0.0763 ng/Kg	SL-049-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0700 ng/Kg	SL-050-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0238 ng/Kg	SL-065-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0395 ng/Kg	SL-065-SA5DN-SB-7.0-8.0
		1,2,3,6,7,8-HXCDD	0.0351 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0359 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0637 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0521 ng/Kg	
		1,2,3,7,8-PECDD	0.0291 ng/Kg	
		1,2,3,7,8-PECDF	0.0327 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0320 ng/Kg	
		2,3,4,7,8-PECDF	0.0458 ng/Kg	
		2,3,7,8-TCDD	0.0160 ng/Kg	
		OCDD	0.624 ng/Kg	
		OCDF	0.257 ng/Kg	
BLK1660B372236	6/18/2011 10:36:00 PM	2,3,7,8-TCDF	0.0242 ng/Kg	SL-048-SA5DN-SS-0.0-0.5
				SL-049-SA5DN-SS-0.0-0.5
				SL-050-SA5DN-SS-0.0-0.5
				SL-065-SA5DN-SB-4.0-5.0
				SL-065-SA5DN-SB-7.0-8.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-04-SA5DN-QC-051911(RES)	1,2,3,4,7,8,9-HPCDF	0.371 ng/Kg	0.371U ng/Kg
DUP-04-SA5DN-QC-051911(RES)	1,2,3,7,8-PECDF	0.107 ng/Kg	0.107U ng/Kg
DUP-04-SA5DN-QC-051911(RES)	2,3,4,7,8-PECDF	0.214 ng/Kg	0.214U ng/Kg
SL-040-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0893 ng/Kg	0.0893U ng/Kg
SL-040-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.264 ng/Kg	0.264U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: PrepDX086_v1

eQAPP Name: CDM_SSFL_110509

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-040-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.239 ng/Kg	0.239U ng/Kg
SL-041-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.377 ng/Kg	0.377U ng/Kg
SL-041-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.347 ng/Kg	0.347U ng/Kg
SL-041-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.442 ng/Kg	0.442U ng/Kg
SL-041-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.560 ng/Kg	0.560U ng/Kg
SL-041-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0508 ng/Kg	0.0508U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.442 ng/Kg	0.442U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.424 ng/Kg	0.424U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.282 ng/Kg	0.282U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.285 ng/Kg	0.285U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.366 ng/Kg	0.366U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0895 ng/Kg	0.0895U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.407 ng/Kg	0.407U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.241 ng/Kg	0.241U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.420 ng/Kg	0.420U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.337 ng/Kg	0.337U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.333 ng/Kg	0.333U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.235 ng/Kg	0.235U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0353 ng/Kg	0.0353U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.229 ng/Kg	0.229U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.203 ng/Kg	0.203U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.193 ng/Kg	0.193U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.136 ng/Kg	0.136U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.137 ng/Kg	0.137U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.216 ng/Kg	0.216U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.447 ng/Kg	0.447U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0661 ng/Kg	0.0661U ng/Kg
SL-045-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.499 ng/Kg	0.499U ng/Kg
SL-045-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.352 ng/Kg	0.352U ng/Kg
SL-045-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.361 ng/Kg	0.361U ng/Kg
SL-045-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.458 ng/Kg	0.458U ng/Kg
SL-045-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0542 ng/Kg	0.0542U ng/Kg
SL-046-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.630 ng/Kg	0.630U ng/Kg
SL-046-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.406 ng/Kg	0.406U ng/Kg
SL-046-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.539 ng/Kg	0.539U ng/Kg
SL-047-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.434 ng/Kg	0.434U ng/Kg
SL-047-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.381 ng/Kg	0.381U ng/Kg
SL-047-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.404 ng/Kg	0.404U ng/Kg
SL-049-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0302 ng/Kg	0.0302U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: PrepDX086_v1

eQAPP Name: CDM_SSFL_110509

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-051-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.245 ng/Kg	0.245U ng/Kg
SL-051-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.215 ng/Kg	0.215U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.504 ng/Kg	0.504U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.249 ng/Kg	0.249U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0939 ng/Kg	0.0939U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0620 ng/Kg	0.0620U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.115 ng/Kg	0.115U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0937 ng/Kg	0.0937U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.119 ng/Kg	0.119U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0716 ng/Kg	0.0716U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0909 ng/Kg	0.0909U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0984 ng/Kg	0.0984U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0298 ng/Kg	0.0298U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	OCDF	0.391 ng/Kg	0.391U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.543 ng/Kg	0.543U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0364 ng/Kg	0.0364U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.209 ng/Kg	0.209U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0548 ng/Kg	0.0548U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0461 ng/Kg	0.0461U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0571 ng/Kg	0.0571U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	OCDD	1.52 ng/Kg	1.52U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	OCDF	0.255 ng/Kg	0.255U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.372 ng/Kg	0.372U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0291 ng/Kg	0.0291U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0471 ng/Kg	0.0471U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0138 ng/Kg	0.0138U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0408 ng/Kg	0.0408U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.0165 ng/Kg	0.0165U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.0629 ng/Kg	0.0629U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0187 ng/Kg	0.0187U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	OCDD	0.738 ng/Kg	0.738U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	OCDF	0.133 ng/Kg	0.133U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX086 | **Laboratory: LL**

EDD Filename: PrepDX086_v1 | **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.00 ng/Kg	1.00U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.174 ng/Kg	0.174U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0688 ng/Kg	0.0688U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0339 ng/Kg	0.0339U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0875 ng/Kg	0.0875U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0396 ng/Kg	0.0396U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.105 ng/Kg	0.105U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0321 ng/Kg	0.0321U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0458 ng/Kg	0.0458U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0429 ng/Kg	0.0429U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0602 ng/Kg	0.0602U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	OCDF	0.362 ng/Kg	0.362U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.317 ng/Kg	0.317U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0768 ng/Kg	0.0768U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0821 ng/Kg	0.0821U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0412 ng/Kg	0.0412U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0400 ng/Kg	0.0400U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0402 ng/Kg	0.0402U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0400 ng/Kg	0.0400U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0508 ng/Kg	0.0508U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0176 ng/Kg	0.0176U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0431 ng/Kg	0.0431U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0710 ng/Kg	0.0710U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0199 ng/Kg	0.0199U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	OCDD	2.39 ng/Kg	2.39U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	OCDF	0.198 ng/Kg	0.198U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086_v1

eQAPP Name: CDM_SSFL_110509

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-043-SA5DN -SS-0.0-0.5MS **SL-043-SA5DN -SS-0.0-0.5MSD** (SL-043-SA5DN -SS-0.0-0.5)	OCDD	-46	25	40.00-135.00	-	OCDD	No Qual, >4x

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Field Duplicate RPD Report

Lab Reporting Batch ID: DX086 | **Laboratory: LL**

EDD Filename: DX086_v1 | **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-043-SA5DN-SS-0.0-0.5	DUP-04-SA5DN-QC-051911			
MOISTURE	13.3	14.3	7		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-043-SA5DN-SS-0.0-0.5	DUP-04-SA5DN-QC-051911			
1,2,3,4,6,7,8-HPCDD	68.7	69.9	2	50.00	
1,2,3,4,6,7,8-HPCDF	4.81	4.79	0	50.00	
1,2,3,4,7,8,9-HPCDF	0.407	0.371	9	50.00	
1,2,3,4,7,8-HxCDD	0.580	0.614	6	50.00	
1,2,3,4,7,8-HXCDF	0.522	0.639	20	50.00	
1,2,3,6,7,8-HXCDD	1.77	1.79	1	50.00	
1,2,3,6,7,8-HXCDF	0.241	0.235	3	50.00	
1,2,3,7,8,9-HXCDD	1.49	1.41	6	50.00	
1,2,3,7,8,9-HXCDF	0.420	0.393	7	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.337	0.320	5	50.00	
1,2,3,7,8-PECDF	0.106	0.107	1	50.00	
2,3,4,6,7,8-HXCDF	0.333	0.307	8	50.00	
2,3,4,7,8-PECDF	0.235	0.214	9	50.00	
2,3,7,8-TCDD	0.0353	0.0532	40	50.00	
OCDD	947	1010	6	50.00	
OCDF	13.1	13.1	0	50.00	
2,3,7,8-TCDF	0.196	1.15 U	200	50.00	J(all detects) UJ(all non-detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF	B	1.32	1.09	PQL	ng/Kg	
DUP-04-SA5DN-QC-051911	1,2,3,4,6,7,8-HPCDF	JB	4.79	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.371	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.614	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.639	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.79	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.235	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.41	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.393	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.320	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.107	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.307	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.214	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0532	1.15	PQL	ng/Kg	
SL-040-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.662	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.648	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.149	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.93	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.258	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.88	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.459	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.197	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0893	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.264	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.239	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0210	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.208	1.16	PQL	ng/Kg	
SL-041-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.878	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.996	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.651	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.377	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.77	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.660	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.347	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.243	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.442	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.560	5.83	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0508	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.375	1.17	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-042-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.65	9.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.442	9.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.567	9.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.424	9.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.12	9.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.282	9.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.47	9.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.625	9.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.428	9.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.293	9.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.285	9.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.366	9.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0895	1.84	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.227	1.84	PQL	ng/Kg	
	OCDF	JB	11.8	18.4	PQL	ng/Kg	
SL-043-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.81	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.407	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.580	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.522	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.77	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.241	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.49	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.420	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.337	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.106	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.333	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.235	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0353	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.196	1.13	PQL	ng/Kg	
SL-044-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.30	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.229	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.203	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.599	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.853	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.193	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.664	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.437	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.136	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.137	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.216	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.447	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0661	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.168	1.11	PQL	ng/Kg	
	OCDF	JB	6.46	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-045-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.51	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.499	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.619	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.556	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.26	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.352	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.59	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.719	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.401	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.471	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.361	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.458	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0542	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.317	1.15	PQL	ng/Kg	
SL-046-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.630	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.886	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.518	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.24	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.406	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.29	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.721	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.563	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.223	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.529	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.539	5.61	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.150	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.347	1.12	PQL	ng/Kg	
SL-047-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.434	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.18	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.587	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.03	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.381	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.63	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.442	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.745	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.299	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.494	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.404	5.39	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.155	1.08	PQL	ng/Kg	
SL-048-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.98	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.68	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.75	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.09	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.714	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.38	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.35	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.39	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.02	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.164	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.698	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.08	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.408	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.724	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.759	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.51	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.557	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.23	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.29	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.478	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.01	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.433	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.801	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0302	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.842	1.09	PQL	ng/Kg	
	OCDF	JB	9.69	10.9	PQL	ng/Kg	
SL-050-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.29	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.21	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.20	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.41	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	5.08	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.03	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.33	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.356	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.17	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.08	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.122	1.09	PQL	ng/Kg	
SL-051-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.15	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.245	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.383	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.470	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.74	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.399	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.45	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.959	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.316	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.215	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.305	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.529	5.36	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.376	1.07	PQL	ng/Kg	
	OCDF	JB	5.76	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.504	5.74	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.249	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0939	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0620	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.115	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.115	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0937	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.119	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.168	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0716	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0909	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.118	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0984	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0298	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0161	1.15	PQL	ng/Kg	
	OCDD	JB	4.59	11.5	PQL	ng/Kg	
	OCDF	JB	0.391	11.5	PQL	ng/Kg	
SL-065-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.543	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0447	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0364	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.108	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.209	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.231	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0548	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0461	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0571	5.62	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0201	1.12	PQL	ng/Kg	
	OCDD	JB	1.52	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.255	11.2	PQL	ng/Kg	
SL-065-SA5DN-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.372	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0291	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0471	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0138	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0408	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0165	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0629	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0522	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0187	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0430	5.52	PQL	ng/Kg	
	OCDD	JB	0.738	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.133	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX086 **Laboratory: LL**

EDD Filename: DX086_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.00	5.59	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.174	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0688	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0339	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0422	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0875	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0396	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.105	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.111	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0321	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0458	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0429	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0602	5.59	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0214	1.12	PQL	ng/Kg	
	OCDF	JB	0.362	11.2	PQL	ng/Kg	
SL-088-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.317	5.90	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0768	5.90	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0821	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0244	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0412	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0400	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0402	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0400	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0508	5.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0176	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0381	5.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0431	5.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0710	5.90	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0199	1.18	PQL	ng/Kg	
	OCDD	JB	2.39	11.8	PQL	ng/Kg	
	OCDF	JBQ	0.198	11.8	PQL	ng/Kg	

LDC #: 25603IA

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

Reviewer: CR

2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?

Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		SL-041-SASDN-SS0.0-0.5	OCDD > cal range		J/P
		SL-048-SASDN-SS0.0-0.5			

LDC #: 256031A

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Reviewer: CL
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

Y N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	Column ~~Associated Samples~~	Qualifications
		SL-050-SASDN-SS-0.0-0.5	2,3,7,8-TCDF	SP2331	R/A

Comments: _____

SAMPLE DELIVERY GROUP

DX088

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	SL-018-SA5DN-SS-0.0-0.5	6297587	N	METHOD	1613B	III
23-May-2011	SL-014-SA5DN-SS-0.0-0.5	6297586	N	METHOD	1613B	III
23-May-2011	SL-013-SA5DN-SS-0.0-0.5	6297585	N	METHOD	1613B	III
23-May-2011	SL-012-SA5DN-SS-0.0-0.5	6297584	N	METHOD	1613B	III
23-May-2011	SL-011-SA5DN-SS-0.0-0.5	6297583	N	METHOD	1613B	III
23-May-2011	SL-010-SA5DN-SS-0.0-0.5	6297582	N	METHOD	1613B	III
23-May-2011	SL-008-SA5DN-SS-0.0-0.5	6297580	N	METHOD	1613B	III
23-May-2011	SL-009-SA5DN-SS-0.0-0.5	6297581	N	METHOD	1613B	III
24-May-2011	SL-198-SA5DN-SS-0.0-0.5	6297599	N	METHOD	1613B	III
24-May-2011	SL-196-SA5DN-SS-0.0-0.5	6297597	N	METHOD	1613B	III
24-May-2011	SL-197-SA5DN-SS-0.0-0.5	6297598	N	METHOD	1613B	III
24-May-2011	SL-195-SA5DN-SS-0.0-0.5	6297596	N	METHOD	1613B	III
24-May-2011	SL-191-SA5DN-SS-0.0-0.5	6297592	N	METHOD	1613B	III
24-May-2011	SL-192-SA5DN-SS-0.0-0.5	6297593	N	METHOD	1613B	III
24-May-2011	SL-189-SA5DN-SS-0.0-0.5	6297591	N	METHOD	1613B	III
24-May-2011	SL-193-SA5DN-SS-0.0-0.5	6297594	N	METHOD	1613B	III
24-May-2011	SL-194-SA5DN-SS-0.0-0.5	6297595	N	METHOD	1613B	III
24-May-2011	SL-188-SA5DN-SS-0.0-0.5	6297590	N	METHOD	1613B	III
24-May-2011	SL-186-SA5DN-SS-0.0-0.5	6297588	N	METHOD	1613B	III
24-May-2011	SL-187-SA5DN-SS-0.0-0.5	6297589	N	METHOD	1613B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation
N = Normal Sample
FD = Field Duplicate
TB = Trip Blank
FB = Field Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory:** LL

EDD Filename: DX088_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-008-SA5DN-SS-0.0-0.5 ***Collected:*** 5/23/2011 5:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.43	JB	0.0295	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.269	JB	0.0357	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.323	JB	0.0842	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.08	JB	0.0800	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.14	JB	0.0867	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.488	JB	0.0778	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.840	JB	0.0819	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.353	JBQ	0.0903	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.275	JB	0.0474	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.27	JB	0.0837	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.403	JB	0.0764	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.06	JB	0.0815	MDL	5.41	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.103	J	0.0214	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	6.80	JB	0.0376	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-009-SA5DN-SS-0.0-0.5 ***Collected:*** 5/23/2011 5:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.546	JB	0.0378	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.815	JB	0.0411	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.979	JB	0.0368	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.71	JB	0.0438	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.681	JB	0.0343	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.43	JB	0.0418	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.448	JB	0.0401	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.519	JB	0.0380	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.24	JB	0.0396	MDL	6.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.711	JB	0.0342	MDL	6.52	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.933	JB	0.0364	MDL	6.52	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.139	JBQ	0.0221	MDL	1.30	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.504	J	0.0888	MDL	1.30	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-010-SA5DN-SS-0.0-0.5 ***Collected:*** 5/23/2011 4:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.15	JB	0.0326	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.653	JB	0.0193	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0790	JB	0.0290	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.103	JBQ	0.0251	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0716	JBQ	0.0201	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.194	JB	0.0269	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0747	JB	0.0183	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.155	JB	0.0251	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0583	JB	0.0212	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0799	JBQ	0.0222	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.111	JB	0.0182	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.114	JB	0.0193	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.147	JB	0.0182	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0282	JB	0.0200	MDL	1.01	PQL	ng/Kg	U	B
OCDF	1.33	JB	0.0319	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-011-SA5DN-SS-0.0-0.5 ***Collected:*** 5/23/2011 4:22:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.13	JB	0.0186	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.230	JBQ	0.0234	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.270	JB	0.0291	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.363	JBQ	0.0265	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.437	JB	0.0303	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.279	JB	0.0247	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.484	JB	0.0294	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.289	JB	0.0274	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.157	JB	0.0267	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.56	JB	0.0300	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.236	JBQ	0.0252	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.425	JBQ	0.0284	MDL	5.60	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0241	JBQ	0.0186	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.350	J	0.0658	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	4.25	JB	0.0340	MDL	11.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-012-SA5DN-SS-0.0-0.5** ***Collected:*** **5/23/2011 3:45:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.44	JB	0.0282	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.351	JB	0.0345	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.161	JB	0.0394	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.472	JB	0.0280	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.915	JB	0.0420	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.376	JB	0.0272	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.617	JB	0.0394	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.512	JBQ	0.0306	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.152	JB	0.0293	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.440	JB	0.0231	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.272	JB	0.0278	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.402	JB	0.0227	MDL	5.52	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0366	JBQ	0.0206	MDL	1.10	PQL	ng/Kg	U	B
OCDF	7.74	JB	0.0360	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: **SL-013-SA5DN-SS-0.0-0.5** ***Collected:*** **5/23/2011 3:25:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.75	JB	0.0222	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.118	JBQ	0.0286	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.238	JBQ	0.0348	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.190	JBQ	0.0279	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.657	JB	0.0377	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.196	JB	0.0253	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.418	JBQ	0.0366	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.180	JB	0.0304	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.207	JBQ	0.0275	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.257	JB	0.0277	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.240	JB	0.0263	MDL	5.04	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.478	JB	0.0275	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0755	JBQ	0.0221	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.197	J	0.0433	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	4.42	JB	0.0405	MDL	10.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-014-SA5DN-SS-0.0-0.5** ***Collected:*** **5/23/2011 2:55:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.29	JB	0.0239	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0858	JBQ	0.0312	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.165	JB	0.0343	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.87	JB	0.0415	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.500	JB	0.0357	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.363	JBQ	0.0412	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.482	JB	0.0344	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.425	JB	0.0431	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.125	JBQ	0.0346	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.10	JB	0.0447	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.212	JB	0.0362	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.428	JB	0.0423	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0300	JBQ	0.0223	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.515	J	0.0652	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	2.87	JB	0.0364	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: **SL-018-SA5DN-SS-0.0-0.5** ***Collected:*** **5/23/2011 2:35:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.23	JB	0.0345	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.743	JB	0.0415	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.542	JB	0.0431	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.34	JB	0.0474	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.47	JB	0.0502	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.44	JB	0.0454	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.33	JB	0.0557	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.560	JB	0.0642	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.969	JB	0.0470	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.84	JB	0.0741	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.290	JBQ	0.0291	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	6.72	JB	0.0430	MDL	10.8	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-186-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 2:48:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.13	JB	0.0250	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.373	JB	0.0359	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.286	JB	0.0315	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.36	JB	0.0345	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.09	JB	0.0325	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.500	JB	0.0313	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.654	JB	0.0315	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.377	JB	0.0399	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.323	JBQ	0.0376	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.87	JB	0.0411	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.372	JB	0.0333	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.695	JB	0.0422	MDL	5.71	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0613	JB	0.0229	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.672	J	0.0920	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	9.12	JB	0.0422	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: **SL-187-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 3:08:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.665	JB	0.0417	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.760	JB	0.0492	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.716	JBQ	0.0385	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.39	JB	0.0511	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.792	JB	0.0375	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.43	JB	0.0480	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.667	JB	0.0421	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.590	JB	0.0536	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.75	JB	0.0508	MDL	6.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.583	JB	0.0384	MDL	6.20	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.12	JB	0.0514	MDL	6.20	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0507	JBQ	0.0287	MDL	1.24	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.745	J	0.101	MDL	1.24	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-188-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 2:20:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.49	JB	0.0452	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.20	JB	0.0211	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.135	JBQ	0.0455	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.148	JBQ	0.0362	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.143	JBQ	0.0400	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.583	JB	0.0398	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.233	JB	0.0327	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.630	JB	0.0375	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.604	JB	0.0507	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.155	JBQ	0.0406	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.993	JB	0.0410	MDL	5.70	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.231	JB	0.0399	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.502	JB	0.0444	MDL	5.70	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.401	J	0.0829	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	2.57	JB	0.0704	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: **SL-189-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 11:35:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.53	JB	0.0467	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.10	JBQ	0.0310	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0475	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.117	JB	0.0400	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.09	JB	0.0726	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.248	JB	0.0432	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.208	JBQ	0.0562	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.318	JB	0.0358	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.234	JB	0.0535	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JBQ	0.0421	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.709	JB	0.0465	MDL	5.86	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.263	JB	0.0361	MDL	5.86	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.461	JB	0.0481	MDL	5.86	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.695	J	0.107	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	2.23	JBQ	0.0843	MDL	11.7	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-191-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 10:30:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.82	JB	0.0864	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.946	JB	0.0794	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.19	JB	0.138	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.40	JB	0.0870	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.20	JBQ	0.121	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.35	JB	0.0684	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.459	JB	0.0807	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.584	JBQ	0.0725	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.288	JBQ	0.0543	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.34	JB	0.0603	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.774	JBQ	0.0612	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0744	JBQ	0.0361	MDL	1.09	PQL	ng/Kg	U	B

Sample ID: **SL-192-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 11:00:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.80	JB	0.0288	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.263	JBQ	0.0339	MDL	6.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.318	J	0.0674	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.693	JB	0.0498	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.00	JB	0.0696	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.289	JB	0.0459	MDL	6.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.714	JB	0.0638	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.426	JB	0.0453	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.274	JB	0.0450	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.238	JBQ	0.0317	MDL	6.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.352	JB	0.0428	MDL	6.11	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.470	JBQ	0.0301	MDL	6.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.281	JBQ	0.0775	MDL	1.22	PQL	ng/Kg	J	Z
OCDF	6.14	JB	0.0406	MDL	12.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-193-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 1:45:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.944	JB	0.0613	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.551	JBQ	0.0562	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.39	JB	0.0841	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.40	JB	0.0601	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.704	JBQ	0.0655	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.29	JB	0.0537	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.386	JB	0.0588	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.346	JB	0.0438	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.829	JB	0.0429	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.948	JB	0.0422	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.01	JB	0.0506	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0316	JB	0.0272	MDL	1.07	PQL	ng/Kg	U	B

Sample ID: **SL-194-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 2:00:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.49	JB	0.0241	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.136	JBQ	0.0462	MDL	6.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.181	JB	0.0415	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.592	JB	0.0353	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.781	JB	0.0440	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.294	JBQ	0.0297	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.699	JB	0.0432	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.599	JBQ	0.0404	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.182	JB	0.0388	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.451	JBQ	0.0331	MDL	6.19	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.262	JB	0.0320	MDL	6.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.389	JB	0.0348	MDL	6.19	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0398	JBQ	0.0258	MDL	1.24	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.302	JQ	0.0747	MDL	1.24	PQL	ng/Kg	J	Z
OCDF	3.01	JBQ	0.0522	MDL	12.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-195-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 9:44:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.97	JBQ	0.0933	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.14	JB	0.109	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.04	JB	0.119	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.68	JB	0.105	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.72	JB	0.110	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.745	JB	0.112	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.07	JB	0.0971	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.98	JB	0.0869	MDL	6.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.33	JB	0.0928	MDL	6.23	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.80	JB	0.0879	MDL	6.23	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.124	JB	0.0444	MDL	1.25	PQL	ng/Kg	J	Z

Sample ID: **SL-196-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 9:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.52	JB	0.0786	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.330	JB	0.0912	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.261	J	0.0590	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.572	JB	0.0445	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.04	JB	0.0611	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.256	JB	0.0421	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.938	JB	0.0576	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.791	JB	0.0415	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.202	JBQ	0.0375	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.357	JB	0.0343	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.350	JB	0.0415	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.459	JB	0.0326	MDL	5.74	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0330	J	0.0172	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.338	JB	0.0738	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	10.5	JB	0.0395	MDL	11.5	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-197-SA5DN-SS-0.0-0.5 ***Collected:*** 5/24/2011 9:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.59	JB	0.0369	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.442	JBQ	0.0531	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.425	JB	0.0631	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.11	JB	0.0564	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.74	JB	0.0667	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.483	JB	0.0466	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.53	JB	0.0593	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.845	JB	0.0527	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.377	JB	0.0492	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.704	JB	0.0404	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.551	JB	0.0404	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.494	JB	0.0427	MDL	5.75	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0743	JBQ	0.0258	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.455	J	0.0852	MDL	1.15	PQL	ng/Kg	J	Z

Sample ID: SL-198-SA5DN-SS-0.0-0.5 ***Collected:*** 5/24/2011 8:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.64	JB	0.0830	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.10	J	0.0900	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.98	JB	0.0697	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.662	JB	0.0727	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.06	JB	0.0621	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.07	JB	0.0643	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.81	JB	0.0686	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.73	JB	0.0604	MDL	5.48	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX088

Method Blank Outlier Report

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: PrepDX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1570B371950	6/9/2011 7:50:00 PM	2,3,7,8-TCDF	0.0363 ng/Kg	SL-009-SA5DN-SS-0.0-0.5 SL-010-SA5DN-SS-0.0-0.5 SL-011-SA5DN-SS-0.0-0.5 SL-012-SA5DN-SS-0.0-0.5 SL-013-SA5DN-SS-0.0-0.5 SL-014-SA5DN-SS-0.0-0.5 SL-018-SA5DN-SS-0.0-0.5 SL-186-SA5DN-SS-0.0-0.5 SL-187-SA5DN-SS-0.0-0.5 SL-188-SA5DN-SS-0.0-0.5 SL-189-SA5DN-SS-0.0-0.5 SL-191-SA5DN-SS-0.0-0.5 SL-193-SA5DN-SS-0.0-0.5 SL-194-SA5DN-SS-0.0-0.5 SL-195-SA5DN-SS-0.0-0.5 SL-197-SA5DN-SS-0.0-0.5
BLK1570B372337	6/7/2011 11:37:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.217 ng/Kg 0.133 ng/Kg 0.0524 ng/Kg 0.0257 ng/Kg 0.0606 ng/Kg 0.0444 ng/Kg 0.0517 ng/Kg 0.0357 ng/Kg 0.0639 ng/Kg 0.0300 ng/Kg 0.0384 ng/Kg 0.0718 ng/Kg 0.0573 ng/Kg 0.0234 ng/Kg 0.526 ng/Kg 0.247 ng/Kg	SL-009-SA5DN-SS-0.0-0.5 SL-010-SA5DN-SS-0.0-0.5 SL-011-SA5DN-SS-0.0-0.5 SL-012-SA5DN-SS-0.0-0.5 SL-013-SA5DN-SS-0.0-0.5 SL-014-SA5DN-SS-0.0-0.5 SL-018-SA5DN-SS-0.0-0.5 SL-186-SA5DN-SS-0.0-0.5 SL-187-SA5DN-SS-0.0-0.5 SL-188-SA5DN-SS-0.0-0.5 SL-189-SA5DN-SS-0.0-0.5 SL-191-SA5DN-SS-0.0-0.5 SL-193-SA5DN-SS-0.0-0.5 SL-194-SA5DN-SS-0.0-0.5 SL-195-SA5DN-SS-0.0-0.5 SL-197-SA5DN-SS-0.0-0.5
BLK1580B371521	6/14/2011 3:21:00 PM	2,3,7,8-TCDF	0.0250 ng/Kg	SL-008-SA5DN-SS-0.0-0.5
BLK1580B372016	6/9/2011 8:16:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDF OCDD OCDF	0.226 ng/Kg 0.122 ng/Kg 0.0726 ng/Kg 0.0241 ng/Kg 0.0553 ng/Kg 0.0485 ng/Kg 0.0467 ng/Kg 0.0535 ng/Kg 0.0693 ng/Kg 0.0396 ng/Kg 0.0353 ng/Kg 0.0579 ng/Kg 0.0728 ng/Kg 0.0170 ng/Kg 0.430 ng/Kg 0.206 ng/Kg	SL-008-SA5DN-SS-0.0-0.5
BLK1610B372012	6/15/2011 8:12:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDF OCDD OCDF	0.405 ng/Kg 0.294 ng/Kg 0.112 ng/Kg 0.0779 ng/Kg 0.0462 ng/Kg 0.0683 ng/Kg 0.0742 ng/Kg 0.0596 ng/Kg 0.0243 ng/Kg 0.0379 ng/Kg 0.101 ng/Kg 0.0757 ng/Kg 0.0158 ng/Kg 0.938 ng/Kg 0.377 ng/Kg	SL-192-SA5DN-SS-0.0-0.5 SL-196-SA5DN-SS-0.0-0.5 SL-198-SA5DN-SS-0.0-0.5
BLK1610B372025	6/18/2011 8:25:00 PM	2,3,7,8-TCDF	0.0540 ng/Kg	SL-192-SA5DN-SS-0.0-0.5 SL-196-SA5DN-SS-0.0-0.5 SL-198-SA5DN-SS-0.0-0.5

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: PrepDX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.269 ng/Kg	0.269U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.653 ng/Kg	0.653U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0790 ng/Kg	0.0790U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0716 ng/Kg	0.0716U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.194 ng/Kg	0.194U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0747 ng/Kg	0.0747U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.155 ng/Kg	0.155U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0583 ng/Kg	0.0583U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0799 ng/Kg	0.0799U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.147 ng/Kg	0.147U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0282 ng/Kg	0.0282U ng/Kg
SL-011-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-011-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.289 ng/Kg	0.289U ng/Kg
SL-011-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.236 ng/Kg	0.236U ng/Kg
SL-011-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0241 ng/Kg	0.0241U ng/Kg
SL-012-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.272 ng/Kg	0.272U ng/Kg
SL-012-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0366 ng/Kg	0.0366U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.118 ng/Kg	0.118U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.240 ng/Kg	0.240U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0755 ng/Kg	0.0755U ng/Kg
SL-014-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0858 ng/Kg	0.0858U ng/Kg
SL-014-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.125 ng/Kg	0.125U ng/Kg
SL-014-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-014-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0300 ng/Kg	0.0300U ng/Kg
SL-186-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0613 ng/Kg	0.0613U ng/Kg
SL-187-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0507 ng/Kg	0.0507U ng/Kg
SL-188-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.135 ng/Kg	0.135U ng/Kg
SL-188-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-188-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.233 ng/Kg	0.233U ng/Kg
SL-188-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-189-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-189-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.117 ng/Kg	0.117U ng/Kg
SL-189-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.208 ng/Kg	0.208U ng/Kg
SL-189-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.234 ng/Kg	0.234U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: PrepDX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-189-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.118 ng/Kg	0.118U ng/Kg
SL-189-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.263 ng/Kg	0.263U ng/Kg
SL-191-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0744 ng/Kg	0.0744U ng/Kg
SL-192-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.263 ng/Kg	0.263U ng/Kg
SL-192-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.289 ng/Kg	0.289U ng/Kg
SL-192-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.352 ng/Kg	0.352U ng/Kg
SL-193-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0316 ng/Kg	0.0316U ng/Kg
SL-194-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-194-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.262 ng/Kg	0.262U ng/Kg
SL-194-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0398 ng/Kg	0.0398U ng/Kg
SL-196-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.330 ng/Kg	0.330U ng/Kg
SL-196-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.256 ng/Kg	0.256U ng/Kg
SL-196-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.350 ng/Kg	0.350U ng/Kg
SL-197-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0743 ng/Kg	0.0743U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.43	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.269	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.323	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.08	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.14	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.488	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.840	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.353	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.275	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.27	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.403	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.06	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.103	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.644	1.08	PQL	ng/Kg	
	OCDF	JB	6.80	10.8	PQL	ng/Kg	
SL-009-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.546	6.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.815	6.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.979	6.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.71	6.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.681	6.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.43	6.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.448	6.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.519	6.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.24	6.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.711	6.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.933	6.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.139	1.30	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.504	1.30	PQL	ng/Kg	
SL-010-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.15	5.05	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.653	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0790	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.103	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0716	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.194	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0747	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.155	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0583	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0799	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.111	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.114	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.147	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0282	1.01	PQL	ng/Kg	
	OCDF	JB	1.33	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.13	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.230	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.270	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.363	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.437	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.279	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.484	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.289	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.157	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.56	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.236	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.425	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0241	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.350	1.12	PQL	ng/Kg	
	OCDF	JB	4.25	11.2	PQL	ng/Kg	
SL-012-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.44	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.351	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.161	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.472	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.915	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.376	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.617	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.512	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.152	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.440	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.272	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.402	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0366	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.105	1.10	PQL	ng/Kg	
	OCDF	JB	7.74	11.0	PQL	ng/Kg	
SL-013-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.75	5.04	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.118	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.238	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.190	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.657	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.196	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.418	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.180	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.207	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.257	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.240	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.478	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0755	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.197	1.01	PQL	ng/Kg	
	OCDF	JB	4.42	10.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.29	5.46	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0858	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.165	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.87	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.500	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.363	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.482	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.425	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.125	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.10	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.212	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.428	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0300	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.515	1.09	PQL	ng/Kg	
	OCDF	JB	2.87	10.9	PQL	ng/Kg	
SL-018-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.23	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.743	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.542	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.34	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.47	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.44	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.33	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.560	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.969	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.84	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.290	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	1.04	1.08	PQL	ng/Kg	
	OCDF	JB	6.72	10.8	PQL	ng/Kg	
SL-186-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.13	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.373	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.286	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.36	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.09	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.500	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.654	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.377	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.323	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.87	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.372	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.695	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0613	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.672	1.14	PQL	ng/Kg	
	OCDF	JB	9.12	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-187-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.665	6.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.760	6.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.716	6.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.39	6.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.792	6.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.43	6.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.667	6.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.590	6.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.75	6.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.583	6.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.12	6.20	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0507	1.24	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.745	1.24	PQL	ng/Kg	
SL-188-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.49	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.20	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.135	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.148	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.143	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.583	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.233	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.630	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.604	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.155	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.993	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.231	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.502	5.70	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.401	1.14	PQL	ng/Kg	
	OCDF	JB	2.57	11.4	PQL	ng/Kg	
SL-189-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.53	5.86	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	1.10	5.86	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.121	5.86	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.117	5.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.09	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.248	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.208	5.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.318	5.86	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.234	5.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.118	5.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.709	5.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.263	5.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.461	5.86	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.695	1.17	PQL	ng/Kg	
	OCDF	JBQ	2.23	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-191-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.82	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.946	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.19	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.40	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	1.20	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.35	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.459	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.584	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.288	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.34	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.774	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0744	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.579	1.09	PQL	ng/Kg	
SL-192-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.80	6.11	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.263	6.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.318	6.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.693	6.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.00	6.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.289	6.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.714	6.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.426	6.11	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.274	6.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.238	6.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.352	6.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.470	6.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.281	1.22	PQL	ng/Kg	
	OCDF	JB	6.14	12.2	PQL	ng/Kg	
SL-193-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.944	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.551	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.39	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.40	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.704	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.29	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.386	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.346	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.829	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.948	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.01	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0316	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.507	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-194-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.49	6.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.136	6.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.181	6.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.592	6.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.781	6.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.294	6.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.699	6.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.599	6.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.182	6.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.451	6.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.262	6.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.389	6.19	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0398	1.24	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.302	1.24	PQL	ng/Kg	
	OCDF	JBQ	3.01	12.4	PQL	ng/Kg	
SL-195-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	2.97	6.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.14	6.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.04	6.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.68	6.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.72	6.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.745	6.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.07	6.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	3.98	6.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.33	6.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.80	6.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.124	1.25	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	1.03	1.25	PQL	ng/Kg	
SL-196-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.52	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.330	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.261	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.572	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.04	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.256	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.938	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.791	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.202	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.357	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.350	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.459	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0330	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.338	1.15	PQL	ng/Kg	
	OCDF	JB	10.5	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX088 **Laboratory: LL**

EDD Filename: DX088_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-197-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.59	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.442	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.425	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.11	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.74	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.483	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.53	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.845	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.377	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.704	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.551	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.494	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0743	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.455	1.15	PQL	ng/Kg	
SL-198-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.64	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.10	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.98	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.662	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.06	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.07	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.81	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.73	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.741	1.10	PQL	ng/Kg	

LDC #: 26031B

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Reviewer: QC
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

Y N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Column	Qualifications
		SL-008-SASDN-SS-0.0-0.5	2,3,7,8-TCDF	SP2331	R/A
		SL-018-SASDN-SS-0.0-0.5			
		SL-191-SASDN-SS-0.0-0.5			
		SL-193-SASDN-SS-0.0-0.5			
		SL-195-SASDN-SS-0.0-0.5			
		SL-198-SASDN-SS-0.0-0.5			

Comments: _____

SAMPLE DELIVERY GROUP

DX089

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-May-2011	SL-203-SA5DN-SS-0.0-0.5	6297652	N	METHOD	1613B	III
24-May-2011	SL-204-SA5DN-SS-0.0-0.5	6297653	N	METHOD	1613B	III
24-May-2011	SL-139-SA5DN-SB-2.0-3.0	6297654	N	METHOD	1613B	III
24-May-2011	SL-145-SA5DN-SB-2.0-3.0	6297655	N	METHOD	1613B	III
24-May-2011	EB06-SA5DN-SS-052411	6297658	EB	METHOD	1613B	III
24-May-2011	SL-146-SA5DN-SB-2.0-3.0	6297656	N	METHOD	1613B	III
24-May-2011	SL-150-SA5DN-SB-4.0-5.0	6297657	N	METHOD	1613B	III
25-May-2011	SL-144-SA5DN-SB-2.0-3.0	6298884	N	METHOD	1613B	III
25-May-2011	SL-144-SA5DN-SB-2.0-3.0MS	6298885	MS	METHOD	1613B	III
25-May-2011	DUP07-SA5DN-QC-052511	6298887	FD	METHOD	1613B	III
25-May-2011	SL-142-SA5DN-SB-2.0-3.0	6298883	N	METHOD	1613B	III
25-May-2011	SL-140-SA5DN-SB-2.0-3.0	6298882	N	METHOD	1613B	III
25-May-2011	SL-133-SA5DN-SB-4.0-5.0	6298881	N	METHOD	1613B	III
25-May-2011	SL-130-SA5DN-SB-4.0-5.0	6298880	N	METHOD	1613B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation
N = Normal Sample
FD = Field Duplicate
TB = Trip Blank
FB = Field Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB06-SA5DN-SS-052411 *Collected:* 5/24/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.95	JBQ	0.429	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.97	JBQ	0.178	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.697	JBQ	0.202	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.710	JB	0.278	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.627	JB	0.303	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.377	JB	0.266	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.723	JBQ	0.291	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.665	JB	0.270	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.774	JBQ	0.257	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.801	JBQ	0.224	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.872	JBQ	0.237	MDL	10.1	PQL	pg/L	U	B
OCDD	6.83	JB	0.463	MDL	20.1	PQL	pg/L	U	B
OCDF	2.41	JB	0.520	MDL	20.1	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP07-SA5DN-QC-052511 *Collected:* 5/25/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.309	JB	0.0292	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.167	JB	0.00877	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.218	JBQ	0.0231	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.104	JB	0.0351	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0931	JBQ	0.0167	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.177	JB	0.0364	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.117	JBQ	0.0130	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.251	JBQ	0.0355	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.169	JB	0.0209	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.115	JB	0.0252	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.105	JB	0.0103	MDL	5.23	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.147	JB	0.0156	MDL	5.23	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.141	JBQ	0.0119	MDL	5.23	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0390	JBQ	0.0163	MDL	1.05	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory:** LL

EDD Filename: DX089_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP07-SA5DN-QC-052511 *Collected:* 5/25/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.758	JB	0.0279	MDL	10.5	PQL	ng/Kg	UJ	B, FD
OCDF	0.452	JB	0.0502	MDL	10.5	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-130-SA5DN-SB-4.0-5.0 *Collected:* 5/25/2011 4:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.69	JB	0.0250	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.222	JB	0.0388	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.595	JB	0.0637	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.464	JB	0.0449	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.66	JB	0.0661	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.329	JBQ	0.0341	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.34	JB	0.0589	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.272	JBQ	0.0335	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.541	JB	0.0297	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.410	JB	0.0103	MDL	5.59	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.221	JBQ	0.0262	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.342	JB	0.0108	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.105	JQ	0.0179	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0996	JB	0.0148	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	8.21	JB	0.0613	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-133-SA5DN-SB-4.0-5.0 *Collected:* 5/25/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.504	JBQ	0.0313	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.152	JBQ	0.0110	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.132	JBQ	0.0201	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0882	JBQ	0.0163	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.154	JBQ	0.0163	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0987	JB	0.0171	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.113	JBQ	0.0133	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.113	JB	0.0161	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.154	JBQ	0.0148	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.149	JBQ	0.0148	MDL	5.57	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory:** LL

EDD Filename: DX089_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-133-SA5DN-SB-4.0-5.0 ***Collected:*** 5/25/2011 12:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.175	JB	0.00860	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0998	JBQ	0.0124	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JB	0.00860	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0585	JQ	0.0152	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0427	JBQ	0.0137	MDL	1.11	PQL	ng/Kg	U	B
OCDD	6.10	JB	0.0355	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.358	JB	0.0357	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-139-SA5DN-SB-2.0-3.0 ***Collected:*** 5/24/2011 10:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.784	JBQ	0.0247	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.124	JBQ	0.0456	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.123	JBQ	0.0489	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0535	JBQ	0.0252	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.389	JB	0.0503	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0448	JBQ	0.0211	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.397	JB	0.0479	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0846	JBQ	0.0321	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0915	JBQ	0.0438	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0765	JBQ	0.0157	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0626	JBQ	0.0235	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.101	JBQ	0.0151	MDL	5.53	PQL	ng/Kg	U	B
OCDF	2.06	JB	0.0537	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-140-SA5DN-SB-2.0-3.0 ***Collected:*** 5/25/2011 10:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.376	JB	0.0261	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.118	JBQ	0.0116	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0841	JBQ	0.0190	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0359	JBQ	0.0142	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0561	JBQ	0.0192	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0606	JBQ	0.0149	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0494	JBQ	0.0146	MDL	5.34	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-140-SA5DN-SB-2.0-3.0 *Collected:* 5/25/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.0592	JB	0.0145	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0511	JBQ	0.0119	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0294	JBQ	0.0159	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0232	JBQ	0.00748	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0381	JB	0.00833	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0626	JB	0.00833	MDL	5.34	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0171	JBQ	0.0132	MDL	1.07	PQL	ng/Kg	U	B
OCDD	4.56	JB	0.0282	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.206	JBQ	0.0424	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-142-SA5DN-SB-2.0-3.0 *Collected:* 5/25/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.224	JB	0.0262	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0639	JBQ	0.00757	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0328	JBQ	0.0162	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0393	JBQ	0.0143	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0850	JBQ	0.0280	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0275	JBQ	0.0105	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.104	JBQ	0.0268	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0792	JBQ	0.0128	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0240	JBQ	0.0179	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0142	JBQ	0.00812	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0202	JB	0.00889	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0554	JBQ	0.00933	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0193	JQ	0.0183	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.429	JBQ	0.0266	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.192	JBQ	0.0418	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-144-SA5DN-SB-2.0-3.0 *Collected:* 5/25/2011 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.248	JBQ	0.0243	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0837	JBQ	0.00695	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0469	JB	0.0142	MDL	5.40	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-144-SA5DN-SB-2.0-3.0** ***Collected:*** **5/25/2011 8:55:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0181	U	0.0181	MDL	5.40	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0112	JBQ	0.0108	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0308	JBQ	0.0191	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0143	JB	0.00849	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0317	JBQ	0.0180	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0361	JBQ	0.0116	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0175	U	0.0175	MDL	5.40	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0114	JBQ	0.00849	MDL	5.40	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0263	JBQ	0.00948	MDL	5.40	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0408	JB	0.00871	MDL	5.40	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0160	U	0.0160	MDL	1.08	PQL	ng/Kg	UJ	FD
OCDD	1.33	JB	0.0337	MDL	10.8	PQL	ng/Kg	UJ	B, FD
OCDF	0.144	JBQ	0.0357	MDL	10.8	PQL	ng/Kg	UJ	B, FD

Sample ID: **SL-145-SA5DN-SB-2.0-3.0** ***Collected:*** **5/24/2011 12:20:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.26	JB	0.0394	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0103	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0326	JBQ	0.0177	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0224	JBQ	0.0174	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0201	JBQ	0.0112	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.120	JB	0.0182	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0417	JBQ	0.0102	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.192	JBQ	0.0174	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.112	JB	0.0134	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0193	JBQ	0.0180	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0263	JBQ	0.00870	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0405	JBQ	0.0107	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0451	JBQ	0.00923	MDL	5.19	PQL	ng/Kg	U	B
OCDF	0.371	JB	0.0319	MDL	10.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory:** LL

EDD Filename: DX089_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-146-SA5DN-SB-2.0-3.0 ***Collected:*** 5/24/2011 2:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.224	JB	0.0230	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.104	JB	0.00783	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0906	JBQ	0.0157	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0941	JB	0.0158	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.125	JBQ	0.0179	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0939	JB	0.0164	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.126	JBQ	0.0138	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.122	JB	0.0162	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.126	JB	0.0176	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.132	JBQ	0.0182	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.170	JB	0.00864	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.123	JB	0.0127	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.206	JBQ	0.00946	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0610	JQ	0.0168	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0305	JBQ	0.0150	MDL	1.16	PQL	ng/Kg	U	B
OCDD	0.535	JB	0.0311	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.176	JBQ	0.0361	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-150-SA5DN-SB-4.0-5.0 ***Collected:*** 5/24/2011 3:35:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.284	JB	0.0239	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.189	JBQ	0.0156	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.115	JB	0.0174	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.256	JB	0.0247	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.315	JB	0.0368	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.276	JB	0.0262	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.342	JB	0.0321	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.275	JB	0.0241	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.271	JBQ	0.0220	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.468	JBQ	0.0241	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.563	JB	0.0120	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.231	JBQ	0.0174	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.483	JB	0.0125	MDL	5.37	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-150-SA5DN-SB-4.0-5.0** ***Collected:*** **5/24/2011 3:35:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.133	JQ	0.0189	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.163	JBQ	0.0168	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	0.535	JBQ	0.0267	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.194	JBQ	0.0366	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: **SL-203-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 8:50:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.53	JB	0.0409	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.530	JBQ	0.0544	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.572	JB	0.0732	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.85	JB	0.0815	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.93	JB	0.0738	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.570	JB	0.0661	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.49	JB	0.0655	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.14	JB	0.0761	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.389	JB	0.0495	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.26	JB	0.0561	MDL	5.84	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.469	JB	0.0606	MDL	5.84	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.766	JB	0.0627	MDL	5.84	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0509	JQ	0.0178	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.918	JB	0.154	MDL	1.17	PQL	ng/Kg	J	Z

Sample ID: **SL-204-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 10:08:00** ***Analysis Type:*** **RES** ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.54	JB	0.0404	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.388	JB	0.0179	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0654	JBQ	0.0352	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0801	JB	0.0301	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.170	JBQ	0.0210	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.300	JB	0.0317	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0803	JB	0.0179	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.388	JB	0.0298	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.373	JBQ	0.0302	MDL	5.75	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-204-SA5DN-SS-0.0-0.5** ***Collected:*** **5/24/2011 10:08:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,7,8-PECDD	0.0703	JBQ	0.0218	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.285	JBQ	0.0182	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0632	JBQ	0.0213	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.128	JBQ	0.0184	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0448	JBQ	0.0325	MDL	1.15	PQL	ng/Kg	U	B
OCDF	0.829	JBQ	0.0515	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX089

Method Blank Outlier Report

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1470B371534	6/1/2011 3:34:00 PM	1,2,3,4,6,7,8-HPCDD	5.92 pg/L	EB06-SA5DN-SS-052411
		1,2,3,4,6,7,8-HPCDF	4.23 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.72 pg/L	
		1,2,3,4,7,8-HxCDD	1.05 pg/L	
		1,2,3,4,7,8-HXCDF	1.89 pg/L	
		1,2,3,6,7,8-HXCDD	1.65 pg/L	
		1,2,3,6,7,8-HXCDF	1.45 pg/L	
		1,2,3,7,8,9-HXCDD	1.92 pg/L	
		1,2,3,7,8,9-HXCDF	1.58 pg/L	
		1,2,3,7,8-PECDD	1.10 pg/L	
		1,2,3,7,8-PECDF	1.09 pg/L	
		2,3,4,6,7,8-HXCDF	1.60 pg/L	
		2,3,4,7,8-PECDF	1.91 pg/L	
		2,3,7,8-TCDF	0.454 pg/L	
		OCDD	18.2 pg/L	
		OCDF	6.41 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB06-SA5DN-SS-052411(RES)	1,2,3,4,6,7,8-HPCDD	2.95 pg/L	2.95U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,4,6,7,8-HPCDF	1.97 pg/L	1.97U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,4,7,8,9-HPCDF	0.697 pg/L	0.697U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,4,7,8-HXCDF	0.710 pg/L	0.710U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,6,7,8-HXCDD	0.627 pg/L	0.627U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,6,7,8-HXCDF	0.377 pg/L	0.377U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,7,8,9-HXCDD	0.723 pg/L	0.723U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,7,8,9-HXCDF	0.665 pg/L	0.665U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,7,8-PECDF	0.774 pg/L	0.774U pg/L
EB06-SA5DN-SS-052411(RES)	2,3,4,6,7,8-HXCDF	0.801 pg/L	0.801U pg/L
EB06-SA5DN-SS-052411(RES)	2,3,4,7,8-PECDF	0.872 pg/L	0.872U pg/L
EB06-SA5DN-SS-052411(RES)	OCDD	6.83 pg/L	6.83U pg/L
EB06-SA5DN-SS-052411(RES)	OCDF	2.41 pg/L	2.41U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1580B372016	6/9/2011 8:16:00 PM	1,2,3,4,6,7,8-HPCDD	0.226 ng/Kg	DUP07-SA5DN-QC-052511
		1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	SL-130-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0726 ng/Kg	SL-133-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0241 ng/Kg	SL-139-SA5DN-SB-2.0-3.0
		1,2,3,4,7,8-HXCDF	0.0553 ng/Kg	SL-140-SA5DN-SB-2.0-3.0
		1,2,3,6,7,8-HXCDD	0.0485 ng/Kg	SL-142-SA5DN-SB-2.0-3.0
		1,2,3,6,7,8-HXCDF	0.0467 ng/Kg	SL-144-SA5DN-SB-2.0-3.0
		1,2,3,7,8,9-HXCDD	0.0535 ng/Kg	SL-145-SA5DN-SB-2.0-3.0
		1,2,3,7,8,9-HXCDF	0.0693 ng/Kg	SL-146-SA5DN-SB-2.0-3.0
		1,2,3,7,8-PECDD	0.0396 ng/Kg	SL-150-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0353 ng/Kg	SL-203-SA5DN-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0579 ng/Kg	SL-204-SA5DN-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0728 ng/Kg	
		2,3,7,8-TCDF	0.0170 ng/Kg	
		OCDD	0.430 ng/Kg	
		OCDF	0.206 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP07-SA5DN-QC-052511(RES)	1,2,3,4,6,7,8-HPCDD	0.309 ng/Kg	0.309U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,4,6,7,8-HPCDF	0.167 ng/Kg	0.167U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,4,7,8,9-HPCDF	0.218 ng/Kg	0.218U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,4,7,8-HxCDD	0.104 ng/Kg	0.104U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,4,7,8-HXCDF	0.0931 ng/Kg	0.0931U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,6,7,8-HXCDD	0.177 ng/Kg	0.177U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,6,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,7,8,9-HXCDD	0.251 ng/Kg	0.251U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,7,8,9-HXCDF	0.169 ng/Kg	0.169U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,7,8-PECDD	0.115 ng/Kg	0.115U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,7,8-PECDF	0.105 ng/Kg	0.105U ng/Kg
DUP07-SA5DN-QC-052511(RES)	2,3,4,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
DUP07-SA5DN-QC-052511(RES)	2,3,4,7,8-PECDF	0.141 ng/Kg	0.141U ng/Kg
DUP07-SA5DN-QC-052511(RES)	2,3,7,8-TCDF	0.0390 ng/Kg	0.0390U ng/Kg
DUP07-SA5DN-QC-052511(RES)	OCDD	0.758 ng/Kg	0.758U ng/Kg
DUP07-SA5DN-QC-052511(RES)	OCDF	0.452 ng/Kg	0.452U ng/Kg
SL-130-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.222 ng/Kg	0.222U ng/Kg
SL-130-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.272 ng/Kg	0.272U ng/Kg
SL-130-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-130-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.342 ng/Kg	0.342U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.504 ng/Kg	0.504U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.152 ng/Kg	0.152U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.132 ng/Kg	0.132U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0882 ng/Kg	0.0882U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.154 ng/Kg	0.154U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0987 ng/Kg	0.0987U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.113 ng/Kg	0.113U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.154 ng/Kg	0.154U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.149 ng/Kg	0.149U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.175 ng/Kg	0.175U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	OCDF	0.358 ng/Kg	0.358U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0535 ng/Kg	0.0535U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0448 ng/Kg	0.0448U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0915 ng/Kg	0.0915U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0765 ng/Kg	0.0765U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0626 ng/Kg	0.0626U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.376 ng/Kg	0.376U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.118 ng/Kg	0.118U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0841 ng/Kg	0.0841U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0359 ng/Kg	0.0359U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0606 ng/Kg	0.0606U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0494 ng/Kg	0.0494U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0592 ng/Kg	0.0592U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0294 ng/Kg	0.0294U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0232 ng/Kg	0.0232U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0626 ng/Kg	0.0626U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0171 ng/Kg	0.0171U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	OCDF	0.206 ng/Kg	0.206U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.224 ng/Kg	0.224U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0639 ng/Kg	0.0639U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0328 ng/Kg	0.0328U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0393 ng/Kg	0.0393U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0850 ng/Kg	0.0850U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0275 ng/Kg	0.0275U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.104 ng/Kg	0.104U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0792 ng/Kg	0.0792U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0240 ng/Kg	0.0240U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0142 ng/Kg	0.0142U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0202 ng/Kg	0.0202U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0554 ng/Kg	0.0554U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	OCDD	0.429 ng/Kg	0.429U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	OCDF	0.192 ng/Kg	0.192U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.248 ng/Kg	0.248U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0837 ng/Kg	0.0837U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0112 ng/Kg	0.0112U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0308 ng/Kg	0.0308U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0143 ng/Kg	0.0143U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0114 ng/Kg	0.0114U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0263 ng/Kg	0.0263U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	OCDD	1.33 ng/Kg	1.33U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	OCDF	0.144 ng/Kg	0.144U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0224 ng/Kg	0.0224U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0201 ng/Kg	0.0201U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.120 ng/Kg	0.120U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.192 ng/Kg	0.192U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0193 ng/Kg	0.0193U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0263 ng/Kg	0.0263U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0405 ng/Kg	0.0405U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0451 ng/Kg	0.0451U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	OCDF	0.371 ng/Kg	0.371U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.224 ng/Kg	0.224U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.104 ng/Kg	0.104U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0906 ng/Kg	0.0906U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0941 ng/Kg	0.0941U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0939 ng/Kg	0.0939U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.132 ng/Kg	0.132U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.123 ng/Kg	0.123U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.206 ng/Kg	0.206U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0305 ng/Kg	0.0305U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	OCDD	0.535 ng/Kg	0.535U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	OCDF	0.176 ng/Kg	0.176U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.284 ng/Kg	0.284U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.189 ng/Kg	0.189U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.271 ng/Kg	0.271U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	OCDD	0.535 ng/Kg	0.535U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	OCDF	0.194 ng/Kg	0.194U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.388 ng/Kg	0.388U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0654 ng/Kg	0.0654U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0801 ng/Kg	0.0801U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0803 ng/Kg	0.0803U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0703 ng/Kg	0.0703U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0632 ng/Kg	0.0632U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.128 ng/Kg	0.128U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0448 ng/Kg	0.0448U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	OCDF	0.829 ng/Kg	0.829U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-144-SA5DN-SB-2.0-3.0	DUP07-SA5DN-QC-052511			
MOISTURE	9.3	6.5	35		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-144-SA5DN-SB-2.0-3.0	DUP07-SA5DN-QC-052511			
1,2,3,4,6,7,8-HPCDD	0.248	0.309	22	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.0837	0.167	66	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8,9-HPCDF	0.0469	0.218	129	50.00	
1,2,3,4,7,8-HxCDD	5.40 U	0.104	200	50.00	
1,2,3,4,7,8-HXCDF	0.0112	0.0931	157	50.00	
1,2,3,6,7,8-HXCDD	0.0308	0.177	141	50.00	
1,2,3,6,7,8-HXCDF	0.0143	0.117	156	50.00	
1,2,3,7,8,9-HXCDD	0.0317	0.251	155	50.00	
1,2,3,7,8,9-HXCDF	0.0361	0.169	130	50.00	
1,2,3,7,8-PECDD	5.40 U	0.115	200	50.00	
1,2,3,7,8-PECDF	0.0114	0.105	161	50.00	
2,3,4,6,7,8-HXCDF	0.0263	0.147	139	50.00	
2,3,4,7,8-PECDF	0.0408	0.141	110	50.00	
2,3,7,8-TCDF	1.08 U	0.0390	200	50.00	
OCDD	1.33	0.758	55	50.00	
OCDF	0.144	0.452	103	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB06-SA5DN-SS-052411	1,2,3,4,6,7,8-HPCDD	JBQ	2.95	10.1	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	1.97	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.697	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.710	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.627	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.377	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.723	10.1	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.665	10.1	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.774	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.801	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.872	10.1	PQL	pg/L	
	OCDD	JB	6.83	20.1	PQL	pg/L	
	OCDF	JB	2.41	20.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA5DN-QC-052511	1,2,3,4,6,7,8-HPCDD	JB	0.309	5.23	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.167	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.218	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.104	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0931	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.177	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.117	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.251	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.169	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.115	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.105	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.147	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.141	5.23	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0390	1.05	PQL	ng/Kg	
	OCDD	JB	0.758	10.5	PQL	ng/Kg	
	OCDF	JB	0.452	10.5	PQL	ng/Kg	
SL-130-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.69	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.222	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.595	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.464	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.66	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.329	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.34	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.272	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.541	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.410	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.221	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.342	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.105	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0996	1.12	PQL	ng/Kg	
	OCDF	JB	8.21	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.504	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.152	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.132	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0882	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.154	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0987	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.113	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.113	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.154	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.149	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.175	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0998	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0585	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0427	1.11	PQL	ng/Kg	
	OCDD	JB	6.10	11.1	PQL	ng/Kg	
	OCDF	JB	0.358	11.1	PQL	ng/Kg	
SL-139-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JBQ	0.784	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.124	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.123	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0535	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.389	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0448	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.397	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0846	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0915	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0765	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0626	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.101	5.53	PQL	ng/Kg	
	OCDF	JB	2.06	11.1	PQL	ng/Kg	
SL-140-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.376	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.118	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0841	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0359	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0561	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0606	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0494	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0592	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0511	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0294	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0232	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0381	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0626	5.34	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0171	1.07	PQL	ng/Kg	
	OCDD	JB	4.56	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.206	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.224	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0639	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0328	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0393	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0850	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0275	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.104	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0792	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0240	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0142	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0202	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0554	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0193	1.10	PQL	ng/Kg	
	OCDD	JBQ	0.429	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.192	11.0	PQL	ng/Kg	
SL-144-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.248	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0837	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0469	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0112	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0308	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0143	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0317	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0361	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0114	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0263	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0408	5.40	PQL	ng/Kg	
	OCDD	JB	1.33	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.144	10.8	PQL	ng/Kg	
SL-145-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	1.26	5.19	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0326	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0224	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0201	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.120	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0417	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.192	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.112	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0193	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0263	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0405	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0451	5.19	PQL	ng/Kg	
	OCDF	JB	0.371	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-146-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.224	5.79	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.104	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0906	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0941	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.125	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0939	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.126	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.122	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.126	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.132	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.170	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.123	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.206	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0610	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0305	1.16	PQL	ng/Kg	
	OCDD	JB	0.535	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.176	11.6	PQL	ng/Kg	
SL-150-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.284	5.37	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.189	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.115	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.256	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.315	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.276	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.342	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.275	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.271	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.468	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.563	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.231	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.483	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.133	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.163	1.07	PQL	ng/Kg	
	OCDD	JBQ	0.535	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.194	10.7	PQL	ng/Kg	
SL-203-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.53	5.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.530	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.572	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.85	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.93	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.570	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.49	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.14	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.389	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.26	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.469	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.766	5.84	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0509	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.918	1.17	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX089 **Laboratory: LL**

EDD Filename: DX089_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
SL-204-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.54	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.388	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0654	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0801	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.170	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.300	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0803	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.388	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.373	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0703	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.285	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0632	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.128	5.75	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0448	1.15	PQL	ng/Kg	
	OCDF	JBQ	0.829	11.5	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX090

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-May-2011	SL-185-SA5DN-SS-0.0-0.5	6298905	N	METHOD	1613B	IV
24-May-2011	SL-057-SA5DN-SS-0.0-0.5	6298902	N	METHOD	1613B	IV
24-May-2011	SL-057-SA5DN-SS-0.0-0.5MS	6298903	MS	METHOD	1613B	IV
24-May-2011	DUP06-SA5DN-QC-052411	6298906	FD	METHOD	1613B	IV
25-May-2011	SL-006-SA5DN-SS-0.0-0.5	6298911	N	METHOD	1613B	IV
25-May-2011	SL-002-SA5DN-SS-0.0-0.5	6298908	N	METHOD	1613B	IV
25-May-2011	SL-001-SA5DN-SS-0.0-0.5	6298907	N	METHOD	1613B	IV
25-May-2011	SL-005-SA5DN-SS-0.0-0.5	6298910	N	METHOD	1613B	IV
25-May-2011	SL-004-SA5DN-SS-0.0-0.5	6298909	N	METHOD	1613B	IV
25-May-2011	SL-199-SA5DN-SS-0.0-0.5	6298914	N	METHOD	1613B	IV
25-May-2011	SL-190-SA5DN-SS-0.0-0.5	6298913	N	METHOD	1613B	IV
25-May-2011	SL-060-SA5DN-SS-0.0-0.5	6298912	N	METHOD	1613B	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP06-SA5DN-QC-052411 ***Collected:*** 5/24/2011 3:55:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.07	JB	0.0301	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.537	JB	0.0149	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0704	JBQ	0.0184	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0914	JBQ	0.0286	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.120	JBQ	0.0237	MDL	5.80	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.243	JB	0.0302	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0804	JB	0.0219	MDL	5.80	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.248	JB	0.0286	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.233	JBQ	0.0234	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0722	JQ	0.0292	MDL	5.80	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.135	JB	0.0206	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.112	JBQ	0.0223	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.189	JB	0.0195	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0306	JQ	0.0253	MDL	1.16	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0350	U	0.0350	MDL	1.16	PQL	ng/Kg	UJ	FD
OCDF	1.32	JB	0.0353	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-001-SA5DN-SS-0.0-0.5 ***Collected:*** 5/25/2011 9:45:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.805	JB	0.0379	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.431	JB	0.0401	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.34	JB	0.0392	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.28	JB	0.0425	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.845	JB	0.0348	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.50	JB	0.0417	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.62	JB	0.0396	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.341	JQ	0.0346	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.827	JB	0.0284	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.944	JB	0.0357	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.06	JB	0.0293	MDL	5.66	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.375	J	0.0555	MDL	1.13	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-002-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 9:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.439	JBQ	0.0352	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.530	JB	0.0320	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.599	JB	0.0319	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.76	JB	0.0346	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.513	JB	0.0286	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.958	JB	0.0327	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.408	JB	0.0292	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.301	J	0.0294	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.278	JB	0.0242	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.662	JB	0.0257	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.672	JB	0.0237	MDL	5.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.161	J	0.0429	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-004-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.24	JB	0.0361	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.289	JB	0.0291	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.113	JB	0.0324	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.254	JB	0.0370	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.164	JB	0.0251	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.736	JB	0.0395	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.178	JB	0.0238	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.80	JB	0.0373	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.165	JB	0.0248	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	4.20	J	0.0621	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.272	JBQ	0.0180	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.165	JB	0.0199	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.317	JB	0.0165	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.138	J	0.0312	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	9.88	JB	0.0493	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.519	JB	0.0550	MDL	10.6	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-005-SA5DN-SS-0.0-0.5 ***Collected:*** 5/25/2011 10:10:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.57	JB	0.0233	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.382	JB	0.0277	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.589	JB	0.0302	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.752	JB	0.0258	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.80	JB	0.0310	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.541	JBQ	0.0236	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.76	JB	0.0305	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.08	JB	0.0270	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.590	J	0.0353	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.574	JB	0.0279	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.492	JB	0.0219	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.962	JB	0.0268	MDL	5.55	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.104	J	0.0195	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.590	J	0.0539	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	8.90	JB	0.0305	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-006-SA5DN-SS-0.0-0.5 ***Collected:*** 5/25/2011 8:40:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.98	JB	0.0708	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.76	JB	0.0601	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.93	JB	0.0570	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.43	JB	0.0644	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.77	JB	0.0568	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	5.71	JB	0.0616	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.40	JB	0.0646	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.53	J	0.0607	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.16	JB	0.0636	MDL	5.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.92	JB	0.0587	MDL	5.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.52	JB	0.0565	MDL	5.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.182	J	0.0317	MDL	1.20	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-057-SA5DN-SS-0.0-0.5 ***Collected:*** 5/24/2011 3:48:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.90	JB	0.0357	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.876	JB	0.0177	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.106	JB	0.0203	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.123	JB	0.0293	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.333	JB	0.0293	MDL	5.67	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.382	JB	0.0299	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.151	JB	0.0254	MDL	5.67	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.404	JB	0.0292	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.282	JB	0.0239	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.126	J	0.0291	MDL	5.67	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.152	JBQ	0.0230	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.159	JB	0.0210	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.164	JBQ	0.0223	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0233	U	0.0233	MDL	1.13	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0807	J	0.0388	MDL	1.13	PQL	ng/Kg	J	Z, FD
OCDF	1.59	JB	0.0304	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-060-SA5DN-SS-0.0-0.5 ***Collected:*** 5/25/2011 3:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.75	JB	0.0303	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.376	JB	0.0337	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.428	JB	0.0317	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.824	JB	0.0307	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.29	JB	0.0340	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.361	JBQ	0.0290	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.17	JB	0.0341	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.836	JB	0.0267	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.375	J	0.0321	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.297	JB	0.0272	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.477	JB	0.0222	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.643	JB	0.0269	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0919	JQ	0.0211	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.266	J	0.0404	MDL	1.06	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-060-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	7.68	JB	0.0404	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-185-SA5DN-SS-0.0-0.5 *Collected:* 5/24/2011 3:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.83	JB	0.0385	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.446	JBQ	0.0183	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0789	JBQ	0.0241	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0661	JBQ	0.0276	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.249	JBQ	0.0280	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.225	JBQ	0.0296	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.105	JBQ	0.0241	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.183	JBQ	0.0274	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.209	JBQ	0.0239	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0480	JQ	0.0287	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0636	JBQ	0.0249	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.108	JBQ	0.0191	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.174	JBQ	0.0241	MDL	5.49	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.159	JQ	0.0447	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.827	JB	0.0503	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-190-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.75	JB	0.0372	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.778	JB	0.0191	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0957	JBQ	0.0373	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0688	JB	0.0250	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.354	JB	0.0209	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.225	JB	0.0277	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.118	JB	0.0175	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.207	JB	0.0259	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.144	JB	0.0265	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0792	JQ	0.0245	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.131	JB	0.0214	MDL	5.88	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-190-SA5DN-SS-0.0-0.5** ***Collected:*** **5/25/2011 2:45:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.162	JB	0.0200	MDL	5.88	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.322	JB	0.0215	MDL	5.88	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0209	JQ	0.0153	MDL	1.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.265	J	0.0430	MDL	1.18	PQL	ng/Kg	J	Z
OCDF	1.52	JB	0.0547	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: **SL-199-SA5DN-SS-0.0-0.5** ***Collected:*** **5/25/2011 11:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.83	JB	0.0329	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.15	JB	0.0258	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.929	JB	0.0230	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.42	JB	0.0275	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.11	JB	0.0198	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.53	JB	0.0269	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.723	JB	0.0262	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.570	J	0.0276	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.96	JB	0.0291	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.50	JB	0.0215	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.42	JB	0.0292	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0836	J	0.0160	MDL	1.07	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*#	Professional Judgment
A	ICP Serial Diution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX090

Method Blank Outlier Report

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1590B371300	6/10/2011 1:00:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.182 ng/Kg 0.118 ng/Kg 0.0736 ng/Kg 0.0419 ng/Kg 0.0475 ng/Kg 0.0307 ng/Kg 0.0493 ng/Kg 0.0427 ng/Kg 0.0885 ng/Kg 0.0269 ng/Kg 0.0739 ng/Kg 0.0558 ng/Kg 0.425 ng/Kg 0.342 ng/Kg	DUP06-SA5DN-QC-052411 SL-001-SA5DN-SS-0.0-0.5 SL-002-SA5DN-SS-0.0-0.5 SL-004-SA5DN-SS-0.0-0.5 SL-005-SA5DN-SS-0.0-0.5 SL-006-SA5DN-SS-0.0-0.5 SL-057-SA5DN-SS-0.0-0.5 SL-060-SA5DN-SS-0.0-0.5 SL-185-SA5DN-SS-0.0-0.5 SL-190-SA5DN-SS-0.0-0.5 SL-199-SA5DN-SS-0.0-0.5
BLK1590B371310	6/14/2011 1:10:00 PM	2,3,7,8-TCDF	0.0408 ng/Kg	DUP06-SA5DN-QC-052411 SL-001-SA5DN-SS-0.0-0.5 SL-002-SA5DN-SS-0.0-0.5 SL-004-SA5DN-SS-0.0-0.5 SL-005-SA5DN-SS-0.0-0.5 SL-006-SA5DN-SS-0.0-0.5 SL-057-SA5DN-SS-0.0-0.5 SL-060-SA5DN-SS-0.0-0.5 SL-185-SA5DN-SS-0.0-0.5 SL-190-SA5DN-SS-0.0-0.5 SL-199-SA5DN-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP06-SA5DN-QC-052411(RES)	1,2,3,4,6,7,8-HPCDF	0.537 ng/Kg	0.537U ng/Kg
DUP06-SA5DN-QC-052411(RES)	1,2,3,4,7,8,9-HPCDF	0.0704 ng/Kg	0.0704U ng/Kg
DUP06-SA5DN-QC-052411(RES)	1,2,3,4,7,8-HxCDD	0.0914 ng/Kg	0.0914U ng/Kg
DUP06-SA5DN-QC-052411(RES)	1,2,3,4,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
DUP06-SA5DN-QC-052411(RES)	1,2,3,6,7,8-HXCDF	0.0804 ng/Kg	0.0804U ng/Kg
DUP06-SA5DN-QC-052411(RES)	1,2,3,7,8,9-HXCDF	0.233 ng/Kg	0.233U ng/Kg
DUP06-SA5DN-QC-052411(RES)	2,3,4,6,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
DUP06-SA5DN-QC-052411(RES)	2,3,4,7,8-PECDF	0.189 ng/Kg	0.189U ng/Kg
DUP06-SA5DN-QC-052411(RES)	OCDF	1.32 ng/Kg	1.32U ng/Kg
SL-002-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.408 ng/Kg	0.408U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.289 ng/Kg	0.289U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.164 ng/Kg	0.164U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	OCDF	0.519 ng/Kg	0.519U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.106 ng/Kg	0.106U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.123 ng/Kg	0.123U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-057-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.282 ng/Kg	0.282U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.159 ng/Kg	0.159U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.164 ng/Kg	0.164U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	OCDF	1.59 ng/Kg	1.59U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.446 ng/Kg	0.446U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0789 ng/Kg	0.0789U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0661 ng/Kg	0.0661U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.183 ng/Kg	0.183U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.209 ng/Kg	0.209U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.174 ng/Kg	0.174U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	OCDF	0.827 ng/Kg	0.827U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0957 ng/Kg	0.0957U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0688 ng/Kg	0.0688U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.207 ng/Kg	0.207U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.131 ng/Kg	0.131U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	OCDF	1.52 ng/Kg	1.52U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: DX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-057-SA5DN-SS-0.0-0.5	DUP06-SA5DN-QC-052411			
MOISTURE	13.4	15.7	16		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-057-SA5DN-SS-0.0-0.5	DUP06-SA5DN-QC-052411			
1,2,3,4,6,7,8-HPCDD	4.90	3.07	46	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.876	0.537	48	50.00	
1,2,3,4,7,8,9-HPCDF	0.106	0.0704	40	50.00	
1,2,3,4,7,8-HxCDD	0.123	0.0914	29	50.00	
1,2,3,6,7,8-HXCDD	0.382	0.243	44	50.00	
1,2,3,7,8,9-HXCDD	0.404	0.248	48	50.00	
1,2,3,7,8,9-HXCDF	0.282	0.233	19	50.00	
1,2,3,7,8-PECDF	0.152	0.135	12	50.00	
2,3,4,6,7,8-HXCDF	0.159	0.112	35	50.00	
2,3,4,7,8-PECDF	0.164	0.189	14	50.00	
OCDD	44.8	34.9	25	50.00	
OCDF	1.59	1.32	19	50.00	
1,2,3,4,7,8-HXCDF	0.333	0.120	94	50.00	J(all detects) UJ(all non-detects)
1,2,3,6,7,8-HXCDF	0.151	0.0804	61	50.00	
1,2,3,7,8-PECDD	0.126	0.0722	54	50.00	
2,3,7,8-TCDD	1.13 U	0.0306	200	50.00	
2,3,7,8-TCDF	0.0807	1.16 U	200	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX090 | **Laboratory: LL**

EDD Filename: PrepDX090_v1 | **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-199-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF	B	2.13	1.07	PQL	ng/Kg	
DUP06-SA5DN-QC-052411	1,2,3,4,6,7,8-HPCDD	JB	3.07	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.537	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0704	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0914	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.120	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.243	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0804	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.248	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.233	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0722	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.135	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.112	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.189	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0306	1.16	PQL	ng/Kg	
	OCDF	JB	1.32	11.6	PQL	ng/Kg	
SL-001-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.805	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.431	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.34	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.28	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.845	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.50	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.62	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.341	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.827	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.944	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.06	5.66	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.375	1.13	PQL	ng/Kg	
SL-002-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.439	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.530	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.599	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.76	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.513	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.958	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.408	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.301	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.278	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.662	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.672	5.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.161	1.02	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.24	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.289	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.113	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.254	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.164	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.736	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.178	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.80	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.165	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	4.20	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.272	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.165	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.317	5.31	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.138	1.06	PQL	ng/Kg	
	OCDD	JB	9.88	10.6	PQL	ng/Kg	
	OCDF	JB	0.519	10.6	PQL	ng/Kg	
SL-005-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.57	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.382	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.589	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.752	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.80	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.541	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.76	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.08	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.590	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.574	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.492	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.962	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.104	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.590	1.11	PQL	ng/Kg	
	OCDF	JB	8.90	11.1	PQL	ng/Kg	
SL-006-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.98	5.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.76	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.93	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.43	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.77	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	5.71	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.40	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.53	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.16	5.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.92	5.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.52	5.98	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.182	1.20	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX090 **Laboratory: LL**

EDD Filename: PrepDX090_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.90	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.876	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.106	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.123	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.333	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.382	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.151	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.404	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.282	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.126	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.152	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.159	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.164	5.67	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0807	1.13	PQL	ng/Kg	
	OCDF	JB	1.59	11.3	PQL	ng/Kg	
SL-060-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.75	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.376	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.428	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.824	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.29	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.361	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.17	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.836	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.375	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.297	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.477	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.643	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0919	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.266	1.06	PQL	ng/Kg	
	OCDF	JB	7.68	10.6	PQL	ng/Kg	
SL-185-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.83	5.49	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.446	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0789	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0661	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.249	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.225	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.105	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.183	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.209	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0480	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0636	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.108	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.174	5.49	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.159	1.10	PQL	ng/Kg	
	OCDF	JB	0.827	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090_v1

eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.75	5.88	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.778	5.88	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0957	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0688	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.354	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.225	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.118	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.207	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.144	5.88	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0792	5.88	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.131	5.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.162	5.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.322	5.88	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0209	1.18	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.265	1.18	PQL	ng/Kg	
	OCDF	JB	1.52	11.8	PQL	ng/Kg	
SL-199-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.83	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.15	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.929	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.42	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.11	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.53	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.723	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.570	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.96	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.50	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.42	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0836	1.07	PQL	ng/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: May 24 through May 25, 2011

LDC Report Date: August 24, 2011

Matrix: Soil

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX090

Sample Identification

SL-057-SA5DN-SS-0.0-0.5
SL-185-SA5DN-SS-0.0-0.5
DUP06-SA5DN-QC-052411
SL-001-SA5DN-SS-0.0-0.5
SL-002-SA5DN-SS-0.0-0.5
SL-004-SA5DN-SS-0.0-0.5
SL-005-SA5DN-SS-0.0-0.5
SL-006-SA5DN-SS-0.0-0.5
SL-060-SA5DN-SS-0.0-0.5
SL-190-SA5DN-SS-0.0-0.5
SL-199-SA5DN-SS-0.0-0.5
SL-057-SA5DN-SS-0.0-0.5MS
SL-057-SA5DN-SS-0.0-0.5MSD

Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
11159001-MB	6/8/11	1,2,3,7,8-PeCDF	0.0269 ng/Kg	All samples in SDG DX090
		2,3,4,7,8-PeCDF	0.0558 ng/Kg	
		1,2,3,4,7,8-HxCDF	0.0475 ng/Kg	
		1,2,3,6,7,8-HxCDF	0.0493 ng/Kg	
		2,3,4,6,7,8-HxCDF	0.0739 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0419 ng/Kg	
		1,2,3,6,7,8-HxCDD	0.0307 ng/Kg	
		1,2,3,7,8,9-HxCDD	0.0427 ng/Kg	
		1,2,3,7,8,9-HxCDF	0.0885 ng/Kg	
		1,2,3,4,6,7,8-HpCDF	0.118 ng/Kg	
		1,2,3,4,6,7,8-HpCDD	0.182 ng/Kg	
		1,2,3,4,7,8,9-HpCDF	0.0736 ng/Kg	
		OCDD	0.425 ng/Kg	
		OCDF	0.342 ng/Kg	

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-057-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF	0.152 ng/Kg	0.152U ng/Kg
	2,3,4,7,8-PeCDF	0.164 ng/Kg	0.164U ng/Kg
	1,2,3,6,7,8-HxCDF	0.151 ng/Kg	0.151U ng/Kg
	2,3,4,6,7,8-HxCDF	0.159 ng/Kg	0.159U ng/Kg
	1,2,3,4,7,8-HxCDD	0.123 ng/Kg	0.123U ng/Kg
	1,2,3,7,8,9-HxCDF	0.282 ng/Kg	0.282U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.106 ng/Kg	0.106U ng/Kg
	OCDF	1.59 ng/Kg	1.59U ng/Kg
SL-185-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF	0.0636 ng/Kg	0.0636U ng/Kg
	2,3,4,7,8-PeCDF	0.174 ng/Kg	0.174U ng/Kg
	1,2,3,6,7,8-HxCDF	0.105 ng/Kg	0.105U ng/Kg
	2,3,4,6,7,8-HxCDF	0.108 ng/Kg	0.108U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0661 ng/Kg	0.0661U ng/Kg
	1,2,3,7,8,9-HxCDD	0.183 ng/Kg	0.183U ng/Kg
	1,2,3,7,8,9-HxCDF	0.209 ng/Kg	0.209U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.446 ng/Kg	0.446U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0789 ng/Kg	0.0789U ng/Kg
	OCDF	0.827 ng/Kg	0.827U ng/Kg
DUP06-SA5DN-QC-052411	2,3,4,7,8-PeCDF	0.189 ng/Kg	0.189U ng/Kg
	1,2,3,4,7,8-HxCDF	0.120 ng/Kg	0.120U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0804 ng/Kg	0.0804U ng/Kg
	2,3,4,6,7,8-HxCDF	0.112 ng/Kg	0.112U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0914 ng/Kg	0.0914U ng/Kg
	1,2,3,7,8,9-HxCDF	0.233 ng/Kg	0.233U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.537 ng/Kg	0.537U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0704 ng/Kg	0.0704U ng/Kg
	OCDF	1.32 ng/Kg	1.32U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-004-SA5DN-SS-0.0-0.5	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.164 ng/Kg 0.178 ng/Kg 0.165 ng/Kg 0.165 ng/Kg 0.289 ng/Kg 0.113 ng/Kg 0.519 ng/Kg	0.164U ng/Kg 0.178U ng/Kg 0.165U ng/Kg 0.165U ng/Kg 0.289U ng/Kg 0.113U ng/Kg 0.519U ng/Kg
SL-190-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.131 ng/Kg 0.118 ng/Kg 0.162 ng/Kg 0.0688 ng/Kg 0.207 ng/Kg 0.144 ng/Kg 0.0957 ng/Kg 1.52 ng/Kg	0.131U ng/Kg 0.118U ng/Kg 0.162U ng/Kg 0.0688U ng/Kg 0.207U ng/Kg 0.144U ng/Kg 0.0957U ng/Kg 1.52U ng/Kg
SL-002-SA5DN-SS-0.0-0.5	1,2,3,7,8,9-HxCDF	0.408 ng/Kg	0.408U ng/Kg

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

All target compound identifications were within validation criteria.

XI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX090	All compounds reported below the RL.	J (all detects)	A

XII. System Performance

The system performance was acceptable.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples SL-057-SA5DN-SS-0.0-0.5 and DUP06-SA5DN-QC-052411 were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-057-SA5DN-SS-0.0-0.5	DUP06-SA5DN-QC-052411			
2,3,7,8-TCDF	0.0807	0.03501U	200 (≤50)	J (all detects) UJ (all non-detects)	A
2,3,7,8-TCDD	0.0233U	0.0306	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDF	0.152	0.135	12 (≤50)	-	-
2,3,4,7,8-PeCDF	0.164	0.189	14 (≤50)	-	-
1,2,3,7,8-PeCDD	0.126	0.0722	54 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDF	0.333	0.120	94 (≤50)	J (all detects)	A
1,2,3,6,7,8-HxCDF	0.151	0.0804	61 (≤50)	J (all detects)	A
2,3,4,6,7,8-HxCDF	0.159	0.112	35 (≤50)	-	-
1,2,3,4,7,8-HxCDD	0.123	0.0914	29 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.382	0.243	44 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.404	0.248	48 (≤50)	-	-
1,2,3,7,8,9-HxCDF	0.282	0.233	19 (≤50)	-	-

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-057-SA5DN-SS-0.0-0.5	DUP06-SA5DN-QC-052411			
1,2,3,4,6,7,8-HpCDF	0.876	0.537	48 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	4.90	3.07	46 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.106	0.0704	40 (≤50)	-	-
OCDD	44.8	34.9	25 (≤50)	-	-
OCDF	1.59	1.32	19 (≤50)	-	-

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX090

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX090	SL-057-SA5DN-SS-0.0-0.5 SL-185-SA5DN-SS-0.0-0.5 DUP06-SA5DN-QC-052411 SL-001-SA5DN-SS-0.0-0.5 SL-002-SA5DN-SS-0.0-0.5 SL-004-SA5DN-SS-0.0-0.5 SL-005-SA5DN-SS-0.0-0.5 SL-006-SA5DN-SS-0.0-0.5 SL-060-SA5DN-SS-0.0-0.5 SL-190-SA5DN-SS-0.0-0.5 SL-199-SA5DN-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DX090	SL-057-SA5DN-SS-0.0-0.5 DUP06-SA5DN-QC-052411	2,3,7,8-TCDF 2,3,7,8-TCDD	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)
DX090	SL-057-SA5DN-SS-0.0-0. DUP06-SA5DN-QC-052411	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF	J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX090

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX090	SL-057-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.152U ng/Kg 0.164U ng/Kg 0.151U ng/Kg 0.159U ng/Kg 0.123U ng/Kg 0.282U ng/Kg 0.106U ng/Kg 1.59U ng/Kg	A	B
DX090	SL-185-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0636U ng/Kg 0.174U ng/Kg 0.105U ng/Kg 0.108U ng/Kg 0.0661U ng/Kg 0.183U ng/Kg 0.209U ng/Kg 0.446U ng/Kg 0.0789U ng/Kg 0.827U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX090	DUP06-SA5DN-QC-052411	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.189U ng/Kg 0.120U ng/Kg 0.0804U ng/Kg 0.112U ng/Kg 0.0914U ng/Kg 0.233U ng/Kg 0.537U ng/Kg 0.0704U ng/Kg 1.32U ng/Kg	A	B
DX090	SL-004-SA5DN-SS-0.0-0.5	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.164U ng/Kg 0.178U ng/Kg 0.165U ng/Kg 0.165U ng/Kg 0.289U ng/Kg 0.113U ng/Kg 0.519U ng/Kg	A	B
DX090	SL-190-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.131U ng/Kg 0.118U ng/Kg 0.162U ng/Kg 0.0688U ng/Kg 0.207U ng/Kg 0.144U ng/Kg 0.0957U ng/Kg 1.52U ng/Kg	A	B
DX090	SL-002-SA5DN-SS-0.0-0.5	1,2,3,7,8,9-HxCDF	0.408U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX090

No Sample Data Qualified in this SDG

LDC #: 2603121 (D)
SDG #: DX090 (F)
Laboratory: Lancaster Laboratories

VALIDATION COMPLETENESS WORKSHEET
Level IV

Date: 8/19/11
Page: 1 of 1
Reviewer: D
2nd Reviewer: A

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 5/24 - 5/25/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 20/35
IV.	Routine calibration/~~CV~~	A	QC limits
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	QC limits
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	A	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 1 + 3
XV.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1 (F)	SL-057-SA5DN-SS-0.0-0.5 (D)	11	SL-199-SA5DN-SS-0.0-0.5	21		31	
2 (F)	SL-185-SA5DN-SS-0.0-0.5	12	SL-057-SA5DN-SS-0.0-0.5MS	22		32	
3 (F)	DUP06-SA5DN-QC-052411 (D)	13	SL-057-SA5DN-SS-0.0-0.5MSD	23		33	
4	SL-001-SA5DN-SS-0.0-0.5	14	1115900 1	24		34	
5	SL-002-SA5DN-SS-0.0-0.5	15		25		35	
6	SL-004-SA5DN-SS-0.0-0.5	16		26		36	
7	SL-005-SA5DN-SS-0.0-0.5	17		27		37	
8	SL-006-SA5DN-SS-0.0-0.5	18		28		38	
9	SL-060-SA5DN-SS-0.0-0.5	19		29		39	
10	SL-190-SA5DN-SS-0.0-0.5	20		30		40	

Notes:

LDC #: 26031D21

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Method: Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Was PFK exact mass 380.9760 verified?	✓			
Were the retention time windows established for all homologues?	✓			
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers ≤ 25% ?	✓			
Is the static resolving power at least 10,000 (10% valley definition)?	✓			
Was the mass resolution adequately check with PFK?	✓			
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	✓			
III. Initial calibration				
Was the initial calibration performed at 5 concentration levels?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% for unlabeled compounds and ≤ 35% for labeled compounds ?	✓			
Did all calibration standards meet the Ion Abundance Ratio criteria?	✓			
Was the signal to noise ratio for each target compound ≥ 2.5 and for each recovery and internal standard ≥ 10?	✓			
IV. Continuing calibration				
Was a routine calibration performed at the beginning and end of each 12 hour period?	✓			
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	✓			
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank performed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?		✓		
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

LDC #: 26031D2 /

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
IX. Internal standards				
Were internal standard recoveries within the 25-150% criteria?	✓			
Was the minimum S/N ratio of all internal standard peaks ≥ 10?	✓			
X. Target compound identification				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within -1 to 3 sec. of the RT of the labeled standard?	✓			
For 2,3,7,8 substituted congeners without associated labeled standards, were the relative retention times of the two quantitation peaks within 0.005 time units of the RRT measured in the routine calibration?	✓			
For non-2,3,7,8 substituted congeners, were the retention times of the two quantitation peaks within RT established in the performance check solution?	✓			
Did compound spectra contain all characteristic ions listed in the table attached?	✓			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	✓			
Was the signal to noise ratio for each target compound and labeled standard ≥ 2.5?	✓			
Does the maximum intensity of each specified characteristic ion coincide within ± 2 seconds (includes labeled standards)?	✓			
For PCDF identification, was any signal (S/N ≥ 2.5, at ± seconds RT) detected in the corresponding PCDPE channel?	✓			
Was an acceptable lock mass recorded and monitored?		✓		
XI. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	✓			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.		✓		
Target compounds were detected in the field blanks.			✓	

VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

LDC #: 26031D2 /

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *empc
Y N N/A Was the method blank contaminated?

Blank extraction date: 06/08/11 **Blank analysis date:** 06/10/11 **Associated samples:** All

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11159001-MB	5X	1	2	3	6	10	5		
I	0.0269*	0.1345	0.152*U	0.0636*U			0.131U			
J	0.0558*	0.279	0.164*U	0.174*U	0.189U					
K	0.0475*	0.2375			0.120*U	0.164U				
L	0.0493	0.2465	0.151U	0.105*U	0.0804U	0.178U	0.118U			
M	0.0739*	0.3695	0.159U	0.108*U	0.112*U	0.165U	0.162U			
C	0.0419*	0.2095	0.123U	0.0661*U	0.0914*U		0.0688U			
D	0.0307*	0.1535								
E	0.0427*	0.2135		0.183*U			0.207U			
N	0.0885*	0.4425	0.282U	0.209*U	0.233*U	0.165U	0.144U	0.408/U		
O	0.118	0.59		0.446*U	0.537U	0.289U				
F	0.182*	0.91								
P	0.0736*	0.368	0.106U	0.0789*U	0.0704*U	0.113U	0.0957*U			
G	0.425	2.125								
Q	0.342	1.71	1.59U	0.827U	1.32U	0.519U	1.52U			

LDC#: 26031D21 **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

*empc

FD

Compound	Concentration (ng/Kg)		≤ 50 RPD	
	1	3		
H	0.0807	0.03501U	~~70~~ 20U	J/UJ/A
A	0.0233U	0.0306*	200	↓
I	0.152*	0.135	12	
J	0.164*	0.189	14	
B	0.126	0.0722*	54	J/A dit
K	0.333	0.120*	94	↓
L	0.151	0.0804	61	↓
M	0.159	0.112*	35	
C	0.123	0.0914*	29	
D	0.382	0.243	44	
E	0.404	0.248	48	
N	0.282	0.233*	19	
O	0.876	0.537	48	
F	4.90	3.07	46	
P	0.106	0.0704*	40	
G	44.8	34.9	25	
Q	1.59	1.32	19	

LDC #: 26031D2/

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$ — A_x = Area of compound, A_{is} = Area of associated internal standard
average RRF = sum of the RRFs/number of standards — C_x = Concentration of compound, C_{is} = Concentration of internal standard
%RSD = 100 * (S/X) — S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported RRF (CS3 std)	Recalculated RRF (CS3 std)	Reported %RSD	Recalculated %RSD
1	ICAL	6/3/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	0.938	0.938	0.952	0.952	3.68	3.68
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.141	1.141	1.129	1.129	4.34	4.34
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.898	0.898	0.951	0.951	6.50	6.50
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	0.981	0.981	1.037	1.037	4.43	4.43
			OCDF (^{13}C-OCDF)	0.885	0.885	0.917	0.917	2.80	2.80
2	ICAL	5/11/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	0.940	0.940	0874	0.874	8.10	8.10
	CONF		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)						
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26031021

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %R	Recalculated %R
1	CCV	6/10/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.970	9.970	100	100
	10:10		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.640	9.640	96	96
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	52.620	52.620	105	105
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	52.650	52.650	105	105
			OCDF (^{13}C-OCDF)	100.0	108.470	108.470	108	108
2	CCV	6/11/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	10.530	10.530	105	105
	18:42		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.960	9.960	100	100
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	53.60	53.60	107	107
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	53.540	53.540	107	107
			OCDF (^{13}C-OCDF)	100.0	108.770	108.770	109	109
3	CCV	6/13/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	10.090	10.090	101	101
	12:11		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.930	9.930	99	99
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	55.330	55.330	111	111
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	54.670	54.670	109	109
			OCDF (^{13}C-OCDF)	100	111.150	111.150	111	111

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26031D2/

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: EJ
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %R	Recalculated %D
1	CCV 0040	6/14/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	10.420	10.420	104	104
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	10.200	10.200	102	102
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	53.900	53.900	108	108
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	53.360	53.360	107	107
			OCDF (^{13}C-OCDF)	100.0	106.170	106.170	106	106
2			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDF)					
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDF)					

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26031D21

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSR - SR)/SA Where: SSR = Spiked sample result, SR = Sample result; SA = Spike added

RPD = | MSR - MSDR | * 2/(MSR + MSDR) MSR = Matrix spike percent recovery MSDR = Matrix spike duplicate percent recovery

MS/MSD samples: 12 & 13

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		Reported RPD	Recalculated RPD
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	----	----
2,3,7,8-TCDD	22.6	22.6	ND	19.6	20.2	87	87	90	90	3	3
1,2,3,7,8-PeCDD	113	113	0.126	105	106	93	93	94	94	1	1
1,2,3,4,7,8-HxCDD	113	113	0.123	105	107	93	93	94	94	1	1
1,2,3,4,7,8,9-HpCDF	113	113	0.106	112	111	99	99	99	99	0	0
OCDF	226	226	~~223~~ 1.59	~~224~~ 223	228	98	98	100	100	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26031D21

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = I LCS - LCSD I * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: OPR159001

Compound	Spike Added (ng/kg)		Spiked Sample Concentration ( )		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
2,3,7,8-TCDD	20.0	NA	18.0	NA	90	90				
1,2,3,7,8-PeCDD	100		92.4		92	92				
1,2,3,4,7,8-HxCDD	100		95.5		96	96				
1,2,3,4,7,8,9-HpCDF	100		99.6		100	100				
OCDF	200		199		100	100	NA			

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Ions Monitored for HRGC/HRMS Analysis of PCDDs/PCDFs

Descriptor	Accurate mass[a]	Ion ID	Elemental Composition	Analyte	Descriptor	Accurate Mass[a]	Ion ID	Elemental Composition	Analyte
1	303.9016 305.8987 315.9419 317.9389 319.8965 321.8936 331.9368 333.9338 375.8364 [354.9792]	M M+2 M M+2 M M+2 M M+2 M+2 LOCK	$C_{12}H_4{}^{35}Cl_4O$ $C_{12}H_4{}^{35}Cl_3{}^{37}C10$ $^{13}C_{12}H_4{}^{35}Cl_4O$ $^{13}C_{12}H_4{}^{35}Cl_3{}^{37}ClO$ $C_{12}H_4{}^{35}Cl_4O_2$ $C_{12}H_4{}^{35}Cl_3{}^{37}C10_2$ $^{13}C_{12}H_4{}^{35}Cl_4O_2$ $^{13}C_{12}H_4{}^{35}Cl_3{}^{37}ClO_2$ $C_{12}H_4{}^{35}Cl_5{}^{37}ClO$ C_9F_{13}	TCDF TCDF TCDF (S) TCDF (S) TCDD TCDD TCDD (S) TCDD (S) HxCDPE PFK	4	407.7818 409.7788 417.8250 419.8220 423.7767 425.7737 435.8169 437.8140 479.7165 [430.9728]	M+2 M+4 M M+2 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}H^{35}Cl_8{}^{37}ClO$ $C_{12}H^{35}Cl_5{}^{37}Cl_2O$ $^{13}C_{12}H^{35}Cl_7O$ $^{13}C_{12}H^{35}Cl_8{}^{37}ClO$ $C_{12}H^{35}Cl_8{}^{37}ClO_2$ $C_{12}H^{35}Cl_5{}^{37}Cl_2O_2$ $^{13}C_{12}H^{35}Cl_8{}^{37}ClO_2$ $^{13}C_{12}H^{35}Cl_5{}^{37}Cl_2O_2$ $C_{12}H^{35}Cl_7{}^{37}Cl_2O$ C_9F_{17}	HpCDF HpCDF HpCDF (S) HpCDF HpCDD HpCDD HpCDD (S) HpCDD (S) NCDPE PFK
2	339.8597 341.8567 351.9000 353.8970 355.8546 357.8516 367.8949 369.8919 409.7974 [354.9792]	M+2 M+4 M+2 M+4 M+2 M+4 M+2 M+4 M+2 LOCK	$C_{12}H_3{}^{35}Cl_4{}^{37}ClO$ $C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O$ $^{13}C_{12}H_3{}^{35}Cl_4{}^{37}C10$ $^{13}C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O$ $C_{12}H_3{}^{35}Cl_4{}^{37}ClO_2$ $C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O_2$ $^{13}C_{12}H_3{}^{35}Cl_4{}^{37}ClO_2$ $^{13}C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O_2$ $C_{12}H_3{}^{35}Cl_6{}^{37}ClO$ C_9F_{13}	PeCDF PeCDF PeCDF (S) PeCDF (S) PeCDD PeCDD PeCDD (S) PeCDD (S) HpCDPE PFK	5	441.7428 443.7399 457.7377 459.7348 469.7780 471.7750 513.6775 [422.9278]	M+2 M+4 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}{}^{35}Cl_7{}^{37}ClO$ $C_{12}{}^{35}Cl_6{}^{37}Cl_2O$ $C_{12}{}^{35}Cl_7{}^{37}ClO_2$ $C_{12}{}^{35}Cl_6{}^{37}Cl_2O_2$ $^{13}C_{12}{}^{35}Cl_7{}^{37}ClO_2$ $^{13}C_{12}{}^{35}Cl_6{}^{37}Cl_2O_2$ $C_{12}{}^{35}Cl_8{}^{37}Cl_2O$ $C_{10}F_{17}$	OCDF OCDF OCDD OCDD OCDD (S) OCDD (S) DCDPE PFK
3	373.8208 375.8178 383.8639 385.8610 389.8156 391.8127 401.8559 403.8529 445.7555 [430.9728]	M+2 M+4 M M+2 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}H_2{}^{35}Cl_5{}^{37}ClO$ $C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O$ $^{13}C_{12}H_2{}^{35}Cl_6O$ $^{13}C_{12}H_2{}^{35}Cl_5{}^{37}ClO$ $C_{12}H_2{}^{35}Cl_5{}^{37}ClO_2$ $C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O_2$ $^{13}C_{12}H_2{}^{35}Cl_5{}^{37}ClO_2$ $^{13}C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O_2$ $C_{12}H_2{}^{35}Cl_6{}^{37}Cl_2O$ C_9F_{17}	HxCDF HxCDF HxCDF (S) HxCDF (S) HxCDD HxCDD HxCDD (S) HxCDD (S) OCDPE PFK					

(a) The following nuclidic masses were used:

H = 1.007825	O = 15.994915
C = 12.000000	^{35}Cl = 34.968853
^{13}C = 13.003355	^{37}Cl = 36.965903
F = 18.9984	

S = internal/recovery standard

LDC #: 26631D21

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

RRF = Relative Response Factor (average) from the initial calibration

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

Example:

Sample I.D. #2, OCDD:

Conc. = (84319)(400)( )
(1276229)(10.1)(0.978)(0.902)

= 29.66 ng/kg

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

LDC #:
SDG #:

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification (additional page)

Page: of
Reviewer:

SAMPLE DELIVERY GROUP

DX091

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
25-May-2011	EB08-SA5DN-SB-052511	6298931	EB	METHOD	1613B	III
25-May-2011	EB07-SA5DN-SS-052511	6298930	EB	METHOD	1613B	III
25-May-2011	DUP08-SA5DN-QC-052411	6298929	FD	METHOD	1613B	III
25-May-2011	SL-205-SA5DN-SS-0.0-0.5	6298928	N	METHOD	1613B	III
25-May-2011	SL-201-SA5DN-SS-0.0-0.5MSD	6298927	MSD	METHOD	1613B	III
25-May-2011	SL-201-SA5DN-SS-0.0-0.5MS	6298926	MS	METHOD	1613B	III
25-May-2011	SL-201-SA5DN-SS-0.0-0.5	6298925	N	METHOD	1613B	III
25-May-2011	SL-200-SA5DN-SS-0.0-0.5	6298924	N	METHOD	1613B	III
26-May-2011	SL-001-SA8N-SB-9.0-10.0	6300335	N	METHOD	1613B	III
26-May-2011	SL-001-SA8N-SB-4.0-5.0	6300334	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB07-SA5DN-SS-052511 *Collected:* 5/25/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.98	JBQ	0.552	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.433	JB	0.218	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.393	JBQ	0.255	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.241	JQ	0.219	MDL	10.5	PQL	pg/L	J	Z
1,2,3,4,7,8-HXCDF	0.231	JBQ	0.136	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.557	JB	0.232	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.139	JBQ	0.130	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.397	JBQ	0.219	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.287	JBQ	0.137	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.297	JBQ	0.212	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.276	JBQ	0.108	MDL	10.5	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.507	JBQ	0.0979	MDL	10.5	PQL	pg/L	U	B
2,3,7,8-TCDD	0.234	JQ	0.202	MDL	2.09	PQL	pg/L	J	Z
OCDD	12.2	JB	0.604	MDL	20.9	PQL	pg/L	U	B
OCDF	1.25	JBQ	0.568	MDL	20.9	PQL	pg/L	U	B

Sample ID: EB08-SA5DN-SB-052511 *Collected:* 5/25/2011 1:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.50	JB	0.313	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.48	JB	0.164	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.685	JB	0.181	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.675	JB	0.196	MDL	10.9	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.534	JB	0.228	MDL	10.9	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.625	JBQ	0.187	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.458	JBQ	0.212	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.718	JB	0.196	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.413	JBQ	0.266	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.302	JB	0.155	MDL	10.9	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.541	JB	0.173	MDL	10.9	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.814	JB	0.147	MDL	10.9	PQL	pg/L	U	B
OCDD	8.39	JB	0.384	MDL	21.8	PQL	pg/L	U	B
OCDF	2.33	JBQ	0.411	MDL	21.8	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory:** LL

EDD Filename: DX091_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP08-SA5DN-QC-052411 *Collected:* 5/25/2011 1:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.44	JB	0.0364	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.782	JB	0.0144	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.106	JBQ	0.0324	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0781	JB	0.0309	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.848	JB	0.0300	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.257	JB	0.0336	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.150	JB	0.0241	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.241	JB	0.0319	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.169	JBQ	0.0370	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0828	JB	0.0363	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.179	JB	0.0401	MDL	5.85	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.262	JB	0.0266	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.591	JQ	0.0433	MDL	5.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0311	JBQ	0.0235	MDL	1.17	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.730	J	0.0837	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	1.53	JBQ	0.0493	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-001-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.618	JB	0.0335	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.150	JBQ	0.0113	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0495	JBQ	0.0275	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0314	JBQ	0.0233	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0339	JBQ	0.0243	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0529	JB	0.0229	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0378	JBQ	0.0172	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0557	JBQ	0.0227	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0314	JBQ	0.0249	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0469	JBQ	0.0295	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0356	JBQ	0.0143	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0850	JB	0.0153	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0627	J	0.0169	MDL	5.89	PQL	ng/Kg	J	Z
OCDD	2.89	JB	0.0327	MDL	11.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory:** LL

EDD Filename: DX091_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-001-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.419	JB	0.0770	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-001-SA8N-SB-9.0-10.0 *Collected:* 5/26/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.329	JBQ	0.0317	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0984	JBQ	0.00832	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0414	JBQ	0.0197	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0404	JBQ	0.0218	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0321	JBQ	0.0137	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0226	JBQ	0.0214	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0206	JBQ	0.0204	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0244	JB	0.0152	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0729	JB	0.0150	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0491	JQ	0.0162	MDL	5.59	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0268	JB	0.0244	MDL	1.12	PQL	ng/Kg	U	B
OCDD	1.20	JB	0.0282	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.283	JB	0.0577	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-200-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 2:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.70	JB	0.0236	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.718	JB	0.0101	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0972	JB	0.0231	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0757	JBQ	0.0200	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0944	JB	0.0170	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.163	JB	0.0208	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.122	JB	0.0140	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.187	JB	0.0197	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JB	0.0221	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0617	JB	0.0191	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.231	JB	0.0160	MDL	5.69	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.174	JB	0.0158	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.300	J	0.0179	MDL	5.69	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-200-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 2:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0303	JBQ	0.0131	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.216	JQ	0.0349	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	1.61	JB	0.0356	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-201-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.71	JB	0.0244	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.831	JB	0.00781	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.115	JB	0.0192	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0725	JB	0.0207	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.743	JB	0.0167	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.237	JBQ	0.0220	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.160	JB	0.0135	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.220	JB	0.0208	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.155	JBQ	0.0234	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0739	JBQ	0.0221	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.948	JB	0.0244	MDL	5.81	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.256	JBQ	0.0151	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.634	J	0.0277	MDL	5.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0133	U	0.0133	MDL	1.16	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.654	J	0.0586	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	1.71	JB	0.0340	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-205-SA5DN-SS-0.0-0.5 *Collected:* 5/25/2011 2:27:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.33	JB	0.0404	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.26	JB	0.0166	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.298	JB	0.0411	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.221	JB	0.0354	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.891	JB	0.0344	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.395	JB	0.0373	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.288	JB	0.0273	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.360	JB	0.0369	MDL	5.82	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-205-SA5DN-SS-0.0-0.5** ***Collected:*** **5/25/2011 2:27:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,7,8,9-HXCDF	0.336	JB	0.0485	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.168	JB	0.0368	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.256	JBQ	0.0345	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.373	JB	0.0307	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.701	J	0.0381	MDL	5.82	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.545	JQ	0.0745	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	2.59	JB	0.0646	MDL	11.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX091

Method Blank Outlier Report

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1540B370528	6/7/2011 5:28:00 AM	1,2,3,4,6,7,8-HPCDD	3.82 pg/L	EB08-SA5DN-SB-052511
		1,2,3,4,6,7,8-HPCDF	2.66 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.23 pg/L	
		1,2,3,4,7,8-HxCDD	0.888 pg/L	
		1,2,3,4,7,8-HXCDF	1.05 pg/L	
		1,2,3,6,7,8-HXCDD	0.712 pg/L	
		1,2,3,6,7,8-HXCDF	1.06 pg/L	
		1,2,3,7,8,9-HXCDD	1.50 pg/L	
		1,2,3,7,8,9-HXCDF	1.01 pg/L	
		1,2,3,7,8-PECDD	1.18 pg/L	
		1,2,3,7,8-PECDF	0.895 pg/L	
		2,3,4,6,7,8-HXCDF	1.18 pg/L	
		2,3,4,7,8-PECDF	0.981 pg/L	
		2,3,7,8-TCDD	0.343 pg/L	
		2,3,7,8-TCDF	0.368 pg/L	
		OCDD	9.88 pg/L	
		OCDF	3.74 pg/L	
BLK1710B371926	6/23/2011 7:26:00 PM	1,2,3,4,6,7,8-HPCDD	6.67 pg/L	EB07-SA5DN-SS-052511
		1,2,3,4,6,7,8-HPCDF	1.14 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.982 pg/L	
		1,2,3,4,7,8-HXCDF	0.509 pg/L	
		1,2,3,6,7,8-HXCDD	0.363 pg/L	
		1,2,3,6,7,8-HXCDF	0.434 pg/L	
		1,2,3,7,8,9-HXCDD	0.765 pg/L	
		1,2,3,7,8,9-HXCDF	0.608 pg/L	
		1,2,3,7,8-PECDD	0.249 pg/L	
		1,2,3,7,8-PECDF	0.310 pg/L	
		2,3,4,6,7,8-HXCDF	0.530 pg/L	
		2,3,4,7,8-PECDF	0.557 pg/L	
		OCDD	13.7 pg/L	
		OCDF	1.25 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB07-SA5DN-SS-052511(RES)	1,2,3,4,6,7,8-HPCDD	5.98 pg/L	5.98U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,4,6,7,8-HPCDF	0.433 pg/L	0.433U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,4,7,8,9-HPCDF	0.393 pg/L	0.393U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,4,7,8-HXCDF	0.231 pg/L	0.231U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,6,7,8-HXCDD	0.557 pg/L	0.557U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,6,7,8-HXCDF	0.139 pg/L	0.139U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8,9-HXCDD	0.397 pg/L	0.397U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8,9-HXCDF	0.287 pg/L	0.287U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8-PECDD	0.297 pg/L	0.297U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8-PECDF	0.276 pg/L	0.276U pg/L
EB07-SA5DN-SS-052511(RES)	2,3,4,7,8-PECDF	0.507 pg/L	0.507U pg/L
EB07-SA5DN-SS-052511(RES)	OCDD	12.2 pg/L	12.2U pg/L
EB07-SA5DN-SS-052511(RES)	OCDF	1.25 pg/L	1.25U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,6,7,8-HPCDD	2.50 pg/L	2.50U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,6,7,8-HPCDF	1.48 pg/L	1.48U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,7,8,9-HPCDF	0.685 pg/L	0.685U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,7,8-HXCDF	0.675 pg/L	0.675U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,6,7,8-HXCDD	0.534 pg/L	0.534U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,6,7,8-HXCDF	0.625 pg/L	0.625U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8,9-HXCDD	0.458 pg/L	0.458U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8,9-HXCDF	0.718 pg/L	0.718U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8-PECDD	0.413 pg/L	0.413U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8-PECDF	0.302 pg/L	0.302U pg/L
EB08-SA5DN-SB-052511(RES)	2,3,4,6,7,8-HXCDF	0.541 pg/L	0.541U pg/L
EB08-SA5DN-SB-052511(RES)	2,3,4,7,8-PECDF	0.814 pg/L	0.814U pg/L
EB08-SA5DN-SB-052511(RES)	OCDD	8.39 pg/L	8.39U pg/L
EB08-SA5DN-SB-052511(RES)	OCDF	2.33 pg/L	2.33U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1590B372132	6/11/2011 9:32:00 PM	1,2,3,4,6,7,8-HPCDD	0.200 ng/Kg	DUP08-SA5DN-QC-052411
		1,2,3,4,6,7,8-HPCDF	0.156 ng/Kg	SL-001-SA8N-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.109 ng/Kg	SL-001-SA8N-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0371 ng/Kg	SL-200-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0750 ng/Kg	SL-201-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0439 ng/Kg	SL-205-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0456 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0360 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0768 ng/Kg	
		1,2,3,7,8-PECDD	0.0516 ng/Kg	
		1,2,3,7,8-PECDF	0.0331 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0650 ng/Kg	
		2,3,7,8-TCDD	0.0249 ng/Kg	
		OCDD	0.698 ng/Kg	
		OCDF	0.500 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP08-SA5DN-QC-052411(RES)	1,2,3,4,7,8,9-HPCDF	0.106 ng/Kg	0.108U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,4,7,8-HxCDD	0.0781 ng/Kg	0.0781U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,6,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,7,8,9-HXCDF	0.169 ng/Kg	0.169U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,7,8-PECDD	0.0828 ng/Kg	0.0828U ng/Kg
DUP08-SA5DN-QC-052411(RES)	2,3,4,6,7,8-HXCDF	0.262 ng/Kg	0.262U ng/Kg
DUP08-SA5DN-QC-052411(RES)	2,3,7,8-TCDD	0.0311 ng/Kg	0.0311U ng/Kg
DUP08-SA5DN-QC-052411(RES)	OCDF	1.53 ng/Kg	1.53U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.618 ng/Kg	0.618U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0529 ng/Kg	0.0529U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0378 ng/Kg	0.0378U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0557 ng/Kg	0.0557U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0314 ng/Kg	0.0314U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0469 ng/Kg	0.0469U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0356 ng/Kg	0.0356U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	OCDD	2.89 ng/Kg	2.89U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	OCDF	0.419 ng/Kg	0.419U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.329 ng/Kg	0.329U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0984 ng/Kg	0.0984U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0404 ng/Kg	0.0404U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0226 ng/Kg	0.0226U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0206 ng/Kg	0.0206U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0244 ng/Kg	0.0244U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0729 ng/Kg	0.0729U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0268 ng/Kg	0.0268U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	OCDD	1.20 ng/Kg	1.20U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	OCDF	0.283 ng/Kg	0.283U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.718 ng/Kg	0.718U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0972 ng/Kg	0.0972U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0757 ng/Kg	0.0757U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0944 ng/Kg	0.0944U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.163 ng/Kg	0.163U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0617 ng/Kg	0.0617U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0303 ng/Kg	0.0303U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	OCDF	1.61 ng/Kg	1.61U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0725 ng/Kg	0.0725U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0739 ng/Kg	0.0739U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.256 ng/Kg	0.256U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	OCDF	1.71 ng/Kg	1.71U ng/Kg
SL-205-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.298 ng/Kg	0.298U ng/Kg
SL-205-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.336 ng/Kg	0.336U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-205-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.168 ng/Kg	0.168U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-201-SA5DN-SS-0.0-0.5	DUP08-SA5DN-QC-052411			
MOISTURE	15.5	14.8	5		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-201-SA5DN-SS-0.0-0.5	DUP08-SA5DN-QC-052411			
1,2,3,4,6,7,8-HPCDD	3.71	3.44	8	50.00	
1,2,3,4,6,7,8-HPCDF	0.831	0.782	6	50.00	
1,2,3,4,7,8,9-HPCDF	0.115	0.106	8	50.00	
1,2,3,4,7,8-HxCDD	0.0725	0.0781	7	50.00	
1,2,3,4,7,8-HXCDF	0.743	0.848	13	50.00	
1,2,3,6,7,8-HXCDD	0.237	0.257	8	50.00	
1,2,3,6,7,8-HXCDF	0.160	0.150	6	50.00	
1,2,3,7,8,9-HXCDD	0.220	0.241	9	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.155	0.169	9	50.00	
1,2,3,7,8-PECDD	0.0739	0.0828	11	50.00	
2,3,4,6,7,8-HXCDF	0.256	0.262	2	50.00	
2,3,4,7,8-PECDF	0.634	0.591	7	50.00	
2,3,7,8-TCDF	0.654	0.730	11	50.00	
OCDD	31.5	29.3	7	50.00	
OCDF	1.71	1.53	11	50.00	
1,2,3,7,8-PECDF	0.948	0.179	136	50.00	J(all detects)
2,3,7,8-TCDD	1.16 U	0.0311	200	50.00	UJ(all non-detects)

Reporting Limit Outliers

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB07-SA5DN-SS-052511	1,2,3,4,6,7,8-HPCDD	JBQ	5.98	10.5	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.433	10.5	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.393	10.5	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JQ	0.241	10.5	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.231	10.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.557	10.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.139	10.5	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.397	10.5	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.287	10.5	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.297	10.5	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.276	10.5	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.507	10.5	PQL	pg/L	
	2,3,7,8-TCDD	JQ	0.234	2.09	PQL	pg/L	
	OCDD	JB	12.2	20.9	PQL	pg/L	
	OCDF	JBQ	1.25	20.9	PQL	pg/L	
EB08-SA5DN-SB-052511	1,2,3,4,6,7,8-HPCDD	JB	2.50	10.9	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.48	10.9	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.685	10.9	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.675	10.9	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.534	10.9	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.625	10.9	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.458	10.9	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.718	10.9	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.413	10.9	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.302	10.9	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.541	10.9	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.814	10.9	PQL	pg/L	
	OCDD	JB	8.39	21.8	PQL	pg/L	
	OCDF	JBQ	2.33	21.8	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5DN-QC-052411	1,2,3,4,6,7,8-HPCDD	JB	3.44	5.85	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.782	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.106	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0781	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.848	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.257	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.150	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.241	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.169	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0828	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.179	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.262	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.591	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0311	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.730	1.17	PQL	ng/Kg	
	OCDF	JBQ	1.53	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.618	5.89	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.150	5.89	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0495	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0314	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0339	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0529	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0378	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0557	5.89	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0314	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0469	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0356	5.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0850	5.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.0627	5.89	PQL	ng/Kg	
	OCDD	JB	2.89	11.8	PQL	ng/Kg	
	OCDF	JB	0.419	11.8	PQL	ng/Kg	
SL-001-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.329	5.59	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0984	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0414	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0404	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0321	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0226	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0206	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.0244	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0729	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0491	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0268	1.12	PQL	ng/Kg	
	OCDD	JB	1.20	11.2	PQL	ng/Kg	
	OCDF	JB	0.283	11.2	PQL	ng/Kg	
SL-200-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.70	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.718	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0972	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0757	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0944	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.163	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.122	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.187	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.126	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0617	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.231	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.174	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.300	5.69	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0303	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.216	1.14	PQL	ng/Kg	
	OCDF	JB	1.61	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX091 **Laboratory: LL**

EDD Filename: DX091_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-201-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.71	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.831	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.115	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0725	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.743	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.237	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.160	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.220	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.155	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0739	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.948	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.256	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.634	5.81	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.654	1.16	PQL	ng/Kg	
	OCDF	JB	1.71	11.6	PQL	ng/Kg	
SL-205-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.33	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.26	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.298	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.221	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.891	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.395	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.288	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.360	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.336	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.168	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.256	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.373	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.701	5.82	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.545	1.16	PQL	ng/Kg	
	OCDF	JB	2.59	11.6	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX093

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-May-2011	SL-179-SA5DN-SS-0.0-0.5	6300380	N	METHOD	1613B	III
26-May-2011	SL-008-SA8N-SB-4.0-5.0	6300368	N	METHOD	1613B	III
26-May-2011	SL-172-SA5DN-SS-0.0-0.5	6300375	N	METHOD	1613B	III
26-May-2011	SL-171-SA5DN-SS-0.0-0.5	6300374	N	METHOD	1613B	III
26-May-2011	SL-008-SA8N-SB-9.0-10.0	6300369	N	METHOD	1613B	III
26-May-2011	SL-170-SA5DN-SS-0.0-0.5	6300373	N	METHOD	1613B	III
26-May-2011	SL-173-SA5DN-SS-0.0-0.5	6300376	N	METHOD	1613B	III
26-May-2011	SL-174-SA5DN-SS-0.0-0.5	6300377	N	METHOD	1613B	III
26-May-2011	SL-175-SA5DN-SS-0.0-0.5	6300378	N	METHOD	1613B	III
26-May-2011	SL-176-SA5DN-SS-0.0-0.5	6300379	N	METHOD	1613B	III
26-May-2011	EB09-SA5DN-SS-052611	6300386	EB	METHOD	1613B	III
26-May-2011	EB11-SA8N-SB-052611	6300387	EB	METHOD	1613B	III
26-May-2011	SL-180-SA5DN-SS-0.0-0.5	6300381	N	METHOD	1613B	III
26-May-2011	SL-181-SA5DN-SS-0.0-0.5	6300382	N	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-4.0-5.0	6300364	N	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-4.0-5.0MS	6300365	MS	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-4.0-5.0MSD	6300366	MSD	METHOD	1613B	III
26-May-2011	SL-182-SA5DN-SS-0.0-0.5	6300383	N	METHOD	1613B	III
26-May-2011	DUP09-SA8N-QC-052611	6300370	FD	METHOD	1613B	III
26-May-2011	SL-183-SA5DN-SS-0.0-0.5	6300384	N	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-9.0-10.0	6300367	N	METHOD	1613B	III
26-May-2011	SL-184-SA5DN-SS-0.0-0.5	6300385	N	METHOD	1613B	III
26-May-2011	SL-165-SA5DN-SS-0.0-0.5	6300372	N	METHOD	1613B	III
26-May-2011	SL-164-SA5DN-SS-0.0-0.5	6300371	N	METHOD	1613B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation
N = Normal Sample
FD = Field Duplicate
TB = Trip Blank
FB = Field Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB09-SA5DN-SS-052611 *Collected:* 5/26/2011 12:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.91	JBQ	0.466	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.601	JB	0.161	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.365	JBQ	0.181	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.256	JB	0.123	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.287	JBQ	0.186	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.345	JB	0.117	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.429	JBQ	0.169	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.183	JBQ	0.126	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.349	JBQ	0.199	MDL	10.8	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.169	JBQ	0.109	MDL	10.8	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.426	JBQ	0.0842	MDL	10.8	PQL	pg/L	U	B
OCDD	14.2	JB	0.504	MDL	21.5	PQL	pg/L	U	B
OCDF	1.12	JBQ	0.453	MDL	21.5	PQL	pg/L	U	B

Sample ID: EB11-SA8N-SB-052611 *Collected:* 5/26/2011 1:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.70	JB	0.339	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.71	JB	0.149	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.593	JBQ	0.177	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.457	JBQ	0.218	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.439	JBQ	0.224	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.323	JBQ	0.232	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.483	JB	0.220	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.579	JBQ	0.224	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.411	JBQ	0.307	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.247	JBQ	0.185	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.882	JBQ	0.185	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.695	JBQ	0.166	MDL	10.1	PQL	pg/L	U	B
2,3,7,8-TCDD	0.301	JBQ	0.300	MDL	2.02	PQL	pg/L	U	B
OCDD	6.60	JB	0.344	MDL	20.2	PQL	pg/L	U	B
OCDF	2.18	JB	0.454	MDL	20.2	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 Laboratory: LL

EDD Filename: DX093_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP09-SA8N-QC-052611 *Collected:* 5/26/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.193	JBQ	0.0294	MDL	5.86	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.128	JBQ	0.0133	MDL	5.86	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0500	JBQ	0.0192	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0166	U	0.0166	MDL	5.86	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0210	JB	0.0192	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0196	JBQ	0.0174	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0253	JB	0.0158	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0217	JBQ	0.0156	MDL	5.86	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0377	JBQ	0.0155	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0255	JBQ	0.0247	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0318	JBQ	0.0112	MDL	5.86	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0688	JBQ	0.0129	MDL	5.86	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0611	JBQ	0.0111	MDL	5.86	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0221	U	0.0221	MDL	1.17	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0190	U	0.0190	MDL	1.17	PQL	ng/Kg	UJ	FD
OCDD	0.568	JBQ	0.0359	MDL	11.7	PQL	ng/Kg	UJ	B, FD
OCDF	0.173	JBQ	0.0424	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-002-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.519	JB	0.0305	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.0465	JB	0.00800	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0386	JBQ	0.0173	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0232	JBQ	0.0188	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0223	JBQ	0.0149	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0295	JBQ	0.0204	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0257	JBQ	0.0123	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0642	JB	0.0200	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0345	JB	0.0202	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0398	JBQ	0.0294	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0511	JB	0.0158	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0277	JB	0.0142	MDL	5.87	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0831	JB	0.0161	MDL	5.87	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory:** LL

EDD Filename: DX093_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-002-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0342	JBQ	0.0272	MDL	1.17	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0368	JQ	0.0320	MDL	1.17	PQL	ng/Kg	J	Z, FD
OCDD	1.49	JB	0.0299	MDL	11.7	PQL	ng/Kg	UJ	B, FD
OCDF	0.131	JB	0.0479	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-002-SA8N-SB-9.0-10.0 *Collected:* 5/26/2011 2:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.520	JB	0.0282	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.232	JB	0.0196	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.257	JB	0.0199	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.122	JBQ	0.0212	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.233	JB	0.0434	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.102	JBQ	0.0221	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.172	JBQ	0.0361	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.154	JBQ	0.0210	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.204	JB	0.0216	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0895	JB	0.0179	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0849	JB	0.0110	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.182	JB	0.0165	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.111	JBQ	0.0117	MDL	5.84	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0355	JBQ	0.0212	MDL	1.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0223	JQ	0.0212	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	2.00	JBQ	0.0474	MDL	11.7	PQL	ng/Kg	J	Z
OCDF	0.578	JB	0.0443	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-008-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.07	JB	0.0367	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.438	JB	0.0125	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.265	JBQ	0.0266	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.237	JBQ	0.0323	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.313	JB	0.0271	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.252	JBQ	0.0328	MDL	5.85	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory:** LL

EDD Filename: DX093_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-008-SA8N-SB-4.0-5.0 *Collected:* 5/26/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.214	JBQ	0.0235	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.355	JBQ	0.0334	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.321	JB	0.0367	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.188	JB	0.0325	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.225	JB	0.0219	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.278	JB	0.0266	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.241	JBQ	0.0213	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0719	JQ	0.0434	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	3.93	JB	0.0376	MDL	11.7	PQL	ng/Kg	U	B
OCDF	1.04	JB	0.0617	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-008-SA8N-SB-9.0-10.0 *Collected:* 5/26/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.600	JB	0.0297	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0907	JB	0.00818	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0363	JB	0.0167	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0339	JBQ	0.0185	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0378	JB	0.0146	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0596	JBQ	0.0199	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0489	JB	0.0124	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0750	JBQ	0.0196	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0456	JBQ	0.0179	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0572	JB	0.0259	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0487	JB	0.0158	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0399	JBQ	0.0136	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0862	JB	0.0156	MDL	5.69	PQL	ng/Kg	U	B
OCDD	2.65	JB	0.0276	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.302	JB	0.0494	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-164-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 3:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.94	JB	0.0181	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.215	JB	0.0329	MDL	5.42	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 Laboratory: LL

EDD Filename: DX093_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-164-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 3:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.191	JB	0.0392	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.494	JB	0.0358	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.881	JB	0.0409	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.261	JB	0.0316	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.854	JB	0.0408	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.605	JB	0.0498	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.197	JBQ	0.0416	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.531	JB	0.0359	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.419	JBQ	0.0342	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.804	JB	0.0376	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0544	JBQ	0.0288	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.386	JQ	0.0735	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	5.29	JB	0.0486	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-165-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.04	JB	0.0714	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.622	JB	0.0524	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.617	JB	0.0502	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.35	JB	0.0565	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.631	JB	0.0484	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.06	JB	0.0526	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.322	JB	0.0571	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.345	JB	0.0447	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.86	JB	0.0446	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.753	JB	0.0467	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.749	JB	0.0440	MDL	5.33	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0640	JB	0.0261	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.524	J	0.0830	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-170-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.31	JB	0.0633	MDL	5.00	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory:** LL

EDD Filename: DX093_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-170-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.625	JB	0.0238	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0369	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.140	JB	0.0294	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.314	JBQ	0.0276	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.286	JB	0.0310	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.229	JB	0.0249	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.206	JB	0.0297	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.204	JBQ	0.0295	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.273	JB	0.0215	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.287	JB	0.0179	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.214	JBQ	0.0247	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.336	JBQ	0.0183	MDL	5.00	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0480	JBQ	0.0160	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0809	J	0.0287	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	2.27	JB	0.0406	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-171-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.421	JB	0.0531	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.74	JB	0.107	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.783	JBQ	0.0718	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.729	JB	0.0654	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.49	JB	0.105	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.88	JB	0.0502	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.324	JB	0.0348	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.975	JB	0.0480	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.07	JB	0.0336	MDL	5.24	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.220	JBQ	0.0216	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.225	JQ	0.0481	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.20	JB	0.0310	MDL	5.31	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory:** LL

EDD Filename: DX093_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-172-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.136	JBQ	0.0399	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.119	JB	0.0547	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0679	JBQ	0.0357	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.430	JB	0.0556	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.110	JB	0.0326	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.376	JBQ	0.0554	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JB	0.0361	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.172	JBQ	0.0298	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0626	JBQ	0.0230	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.141	JBQ	0.0312	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.196	JB	0.0230	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0650	JBQ	0.0218	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0468	J	0.0304	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	2.65	JB	0.0518	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-173-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.403	JB	0.0437	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.460	JB	0.0857	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.480	JBQ	0.0917	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.80	JB	0.0934	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.676	JB	0.0910	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.08	JB	0.0770	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.223	JB	0.0340	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.230	JB	0.0324	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.177	JB	0.0362	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.665	JB	0.0318	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.898	JB	0.0351	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0375	JBQ	0.0168	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.380	J	0.0639	MDL	1.05	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 Laboratory: LL

EDD Filename: DX093_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-174-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 10:53:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.48	JB	0.0184	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.396	JB	0.0250	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.288	JB	0.0410	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.408	JB	0.0267	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.09	JB	0.0405	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.311	JB	0.0251	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.646	JB	0.0421	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JB	0.0247	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.291	JB	0.0376	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.465	JB	0.0238	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.376	JB	0.0239	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.407	JB	0.0221	MDL	5.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.124	JBQ	0.0263	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.181	J	0.0469	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	8.25	JB	0.0178	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-175-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	1.80	JBQ	0.109	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.53	JB	0.0950	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.65	JB	0.0836	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.34	JB	0.0990	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.464	JB	0.0754	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.06	JB	0.0811	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.307	JB	0.0249	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.76	JB	0.0643	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.528	JB	0.0246	MDL	5.21	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0863	JBQ	0.0266	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.146	J	0.0351	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-176-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.13	JB	0.0130	MDL	5.14	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-176-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.343	JB	0.0249	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.261	JB	0.0273	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.51	JB	0.0238	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.24	JB	0.0275	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.984	JB	0.0206	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.933	JB	0.0281	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.366	JB	0.0281	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.327	JB	0.0357	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.483	JB	0.0283	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.473	JBQ	0.0229	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.566	JB	0.0300	MDL	5.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0980	JB	0.0205	MDL	1.03	PQL	ng/Kg	U	B
OCDF	4.22	JB	0.0177	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-179-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.37	JB	0.0377	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.146	JB	0.0349	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.208	JBQ	0.0519	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.207	JB	0.0687	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.526	JB	0.0556	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.220	JBQ	0.0574	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.378	JB	0.0451	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.189	JB	0.0338	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.277	JBQ	0.0248	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.260	JB	0.0247	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.231	JB	0.0287	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.389	JB	0.0261	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0659	JBQ	0.0153	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.323	J	0.0514	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	3.18	JB	0.0466	MDL	10.5	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX093 Laboratory: LL

EDD Filename: DX093_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-180-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.06	JB	0.0292	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.126	JB	0.0353	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.161	JBQ	0.0367	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.316	JB	0.0317	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.371	JB	0.0373	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.179	JBQ	0.0281	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.276	JB	0.0348	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.195	JB	0.0272	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.284	JB	0.0202	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.243	JB	0.0155	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.168	JBQ	0.0231	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.305	JBQ	0.0152	MDL	5.12	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0482	JBQ	0.0140	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.115	JQ	0.0192	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	3.19	JB	0.0443	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-181-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.399	JB	0.0525	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.576	JBQ	0.0747	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.20	JB	0.0512	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.22	JB	0.0776	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.490	JB	0.0458	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.26	JB	0.0729	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.469	JB	0.0448	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.382	JBQ	0.0336	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.301	JB	0.0409	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.521	JB	0.0383	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.759	JB	0.0402	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0453	JB	0.0169	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.526	JQ	0.0716	MDL	1.04	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory:** LL

EDD Filename: DX093_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-182-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.95	JB	0.0421	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.178	JB	0.0391	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.152	JBQ	0.0513	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.472	JB	0.0454	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.566	JB	0.0552	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.132	JB	0.0423	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.407	JBQ	0.0495	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0291	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.125	JBQ	0.0235	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0698	JBQ	0.0221	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.174	JB	0.0227	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.259	JB	0.0209	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0212	JBQ	0.0153	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.167	JQ	0.0360	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	5.36	JB	0.0418	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-183-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.53	JB	0.0316	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.195	JBQ	0.0401	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.402	JB	0.0639	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.199	JBQ	0.0409	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.19	JB	0.0657	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.254	JB	0.0359	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.835	JBQ	0.0643	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.138	JBQ	0.0319	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.357	JB	0.0222	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0596	JB	0.0172	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.270	JB	0.0245	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.282	JB	0.0177	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.104	JQ	0.0269	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	5.25	JB	0.0432	MDL	10.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX093 Laboratory: LL

EDD Filename: DX093_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-184-SA5DN-SS-0.0-0.5 *Collected:* 5/26/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.898	JB	0.0222	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.104	JB	0.0259	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0870	JBQ	0.0365	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.374	JB	0.0289	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.318	JB	0.0381	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0939	JBQ	0.0260	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.264	JB	0.0346	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.107	JB	0.0219	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.106	JB	0.0168	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0636	JB	0.0183	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.118	JB	0.0200	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.242	JB	0.0175	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0441	JB	0.0118	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.161	J	0.0375	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	2.26	JB	0.0271	MDL	10.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX093

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1540B370528	6/7/2011 5:28:00 AM	1,2,3,4,6,7,8-HPCDD	3.82 pg/L	EB11-SA8N-SB-052611
		1,2,3,4,6,7,8-HPCDF	2.66 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.23 pg/L	
		1,2,3,4,7,8-HxCDD	0.888 pg/L	
		1,2,3,4,7,8-HXCDF	1.05 pg/L	
		1,2,3,6,7,8-HXCDD	0.712 pg/L	
		1,2,3,6,7,8-HXCDF	1.06 pg/L	
		1,2,3,7,8,9-HXCDD	1.50 pg/L	
		1,2,3,7,8,9-HXCDF	1.01 pg/L	
		1,2,3,7,8-PECDD	1.18 pg/L	
		1,2,3,7,8-PECDF	0.895 pg/L	
		2,3,4,6,7,8-HXCDF	1.18 pg/L	
		2,3,4,7,8-PECDF	0.981 pg/L	
		2,3,7,8-TCDD	0.343 pg/L	
		2,3,7,8-TCDF	0.368 pg/L	
		OCDD	9.88 pg/L	
		OCDF	3.74 pg/L	
BLK1710B371926	6/23/2011 7:26:00 PM	1,2,3,4,6,7,8-HPCDD	6.67 pg/L	EB09-SA5DN-SS-052611
		1,2,3,4,6,7,8-HPCDF	1.14 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.982 pg/L	
		1,2,3,4,7,8-HXCDF	0.509 pg/L	
		1,2,3,6,7,8-HXCDD	0.363 pg/L	
		1,2,3,6,7,8-HXCDF	0.434 pg/L	
		1,2,3,7,8,9-HXCDD	0.765 pg/L	
		1,2,3,7,8,9-HXCDF	0.608 pg/L	
		1,2,3,7,8-PECDD	0.249 pg/L	
		1,2,3,7,8-PECDF	0.310 pg/L	
		2,3,4,6,7,8-HXCDF	0.530 pg/L	
		2,3,4,7,8-PECDF	0.557 pg/L	
		OCDD	13.7 pg/L	
		OCDF	1.25 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB09-SA5DN-SS-052611(RES)	1,2,3,4,6,7,8-HPCDD	5.91 pg/L	5.91U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,4,6,7,8-HPCDF	0.601 pg/L	0.601U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,4,7,8,9-HPCDF	0.365 pg/L	0.365U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,4,7,8-HXCDF	0.256 pg/L	0.256U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,6,7,8-HXCDD	0.287 pg/L	0.287U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,6,7,8-HXCDF	0.345 pg/L	0.345U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,7,8,9-HXCDD	0.429 pg/L	0.429U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,7,8,9-HXCDF	0.183 pg/L	0.183U pg/L
EB09-SA5DN-SS-052611(RES)	1,2,3,7,8-PECDD	0.349 pg/L	0.349U pg/L
EB09-SA5DN-SS-052611(RES)	2,3,4,6,7,8-HXCDF	0.169 pg/L	0.169U pg/L
EB09-SA5DN-SS-052611(RES)	2,3,4,7,8-PECDF	0.426 pg/L	0.426U pg/L
EB09-SA5DN-SS-052611(RES)	OCDD	14.2 pg/L	14.2U pg/L
EB09-SA5DN-SS-052611(RES)	OCDF	1.12 pg/L	1.12U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,4,6,7,8-HPCDD	2.70 pg/L	2.70U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,4,6,7,8-HPCDF	1.71 pg/L	1.71U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,4,7,8,9-HPCDF	0.593 pg/L	0.593U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,4,7,8-HxCDD	0.457 pg/L	0.457U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,4,7,8-HXCDF	0.439 pg/L	0.439U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,6,7,8-HXCDD	0.323 pg/L	0.323U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,7,8,9-HXCDD	0.483 pg/L	0.483U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB11-SA8N-SB-052611(RES)	1,2,3,7,8,9-HXCDF	0.579 pg/L	0.579U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,7,8-PECDD	0.411 pg/L	0.411U pg/L
EB11-SA8N-SB-052611(RES)	1,2,3,7,8-PECDF	0.247 pg/L	0.247U pg/L
EB11-SA8N-SB-052611(RES)	2,3,4,6,7,8-HXCDF	0.882 pg/L	0.882U pg/L
EB11-SA8N-SB-052611(RES)	2,3,4,7,8-PECDF	0.695 pg/L	0.695U pg/L
EB11-SA8N-SB-052611(RES)	2,3,7,8-TCDD	0.301 pg/L	0.301U pg/L
EB11-SA8N-SB-052611(RES)	OCDD	6.60 pg/L	6.60U pg/L
EB11-SA8N-SB-052611(RES)	OCDF	2.18 pg/L	2.18U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1600B371929	6/10/2011 7:29:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.165 ng/Kg 0.0916 ng/Kg 0.0865 ng/Kg 0.0405 ng/Kg 0.0410 ng/Kg 0.0321 ng/Kg 0.0212 ng/Kg 0.0266 ng/Kg 0.0765 ng/Kg 0.0422 ng/Kg 0.0406 ng/Kg 0.0475 ng/Kg 0.0851 ng/Kg 0.0262 ng/Kg 0.358 ng/Kg 0.272 ng/Kg	DUP09-SA8N-QC-052611 SL-002-SA8N-SB-9.0-10.0 SL-170-SA5DN-SS-0.0-0.5 SL-171-SA5DN-SS-0.0-0.5 SL-172-SA5DN-SS-0.0-0.5 SL-173-SA5DN-SS-0.0-0.5 SL-175-SA5DN-SS-0.0-0.5 SL-179-SA5DN-SS-0.0-0.5 SL-180-SA5DN-SS-0.0-0.5 SL-181-SA5DN-SS-0.0-0.5 SL-182-SA5DN-SS-0.0-0.5 SL-183-SA5DN-SS-0.0-0.5 SL-184-SA5DN-SS-0.0-0.5
BLK1640B370048	6/19/2011 12:48:00 AM	2,3,7,8-TCDF	0.0331 ng/Kg	SL-002-SA8N-SB-4.0-5.0 SL-008-SA8N-SB-4.0-5.0 SL-008-SA8N-SB-9.0-10.0 SL-164-SA5DN-SS-0.0-0.5 SL-165-SA5DN-SS-0.0-0.5 SL-174-SA5DN-SS-0.0-0.5 SL-176-SA5DN-SS-0.0-0.5
BLK1640B371219	6/15/2011 12:19:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.441 ng/Kg 0.125 ng/Kg 0.129 ng/Kg 0.0282 ng/Kg 0.0646 ng/Kg 0.0834 ng/Kg 0.0428 ng/Kg 0.0880 ng/Kg 0.103 ng/Kg 0.0678 ng/Kg 0.0398 ng/Kg 0.0484 ng/Kg 0.0741 ng/Kg 0.0312 ng/Kg 1.24 ng/Kg 0.518 ng/Kg	SL-002-SA8N-SB-4.0-5.0 SL-008-SA8N-SB-4.0-5.0 SL-008-SA8N-SB-9.0-10.0 SL-164-SA5DN-SS-0.0-0.5 SL-165-SA5DN-SS-0.0-0.5 SL-174-SA5DN-SS-0.0-0.5 SL-176-SA5DN-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA8N-QC-052611(RES)	1,2,3,4,6,7,8-HPCDD	0.193 ng/Kg	0.193U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,4,6,7,8-HPCDF	0.128 ng/Kg	0.128U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,4,7,8,9-HPCDF	0.0500 ng/Kg	0.0500U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,4,7,8-HXCDF	0.0210 ng/Kg	0.0210U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,6,7,8-HXCDD	0.0196 ng/Kg	0.0196U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,6,7,8-HXCDF	0.0253 ng/Kg	0.0253U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,7,8,9-HXCDD	0.0217 ng/Kg	0.0217U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,7,8,9-HXCDF	0.0377 ng/Kg	0.0377U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,7,8-PECDD	0.0255 ng/Kg	0.0255U ng/Kg
DUP09-SA8N-QC-052611(RES)	1,2,3,7,8-PECDF	0.0318 ng/Kg	0.0318U ng/Kg
DUP09-SA8N-QC-052611(RES)	2,3,4,6,7,8-HXCDF	0.0688 ng/Kg	0.0688U ng/Kg
DUP09-SA8N-QC-052611(RES)	2,3,4,7,8-PECDF	0.0611 ng/Kg	0.0611U ng/Kg
DUP09-SA8N-QC-052611(RES)	OCDD	0.568 ng/Kg	0.568U ng/Kg
DUP09-SA8N-QC-052611(RES)	OCDF	0.173 ng/Kg	0.173U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.519 ng/Kg	0.519U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0232 ng/Kg	0.0232U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0223 ng/Kg	0.0223U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0295 ng/Kg	0.0295U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0642 ng/Kg	0.0642U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0398 ng/Kg	0.0398U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0831 ng/Kg	0.0831U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0342 ng/Kg	0.0342U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	OCDD	1.49 ng/Kg	1.49U ng/Kg
SL-002-SA8N-SB-4.0-5.0(RES)	OCDF	0.131 ng/Kg	0.131U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.520 ng/Kg	0.520U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.232 ng/Kg	0.232U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.257 ng/Kg	0.257U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.122 ng/Kg	0.122U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.204 ng/Kg	0.204U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0895 ng/Kg	0.0895U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0849 ng/Kg	0.0849U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.182 ng/Kg	0.182U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-002-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-002-SA8N-SB-9.0-10.0(RES)	OCDF	0.578 ng/Kg	0.578U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.07 ng/Kg	1.07U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.438 ng/Kg	0.438U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.265 ng/Kg	0.265U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.313 ng/Kg	0.313U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.252 ng/Kg	0.252U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.214 ng/Kg	0.214U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.355 ng/Kg	0.355U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.321 ng/Kg	0.321U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.188 ng/Kg	0.188U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.241 ng/Kg	0.241U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	OCDD	3.93 ng/Kg	3.93U ng/Kg
SL-008-SA8N-SB-4.0-5.0(RES)	OCDF	1.04 ng/Kg	1.04U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.600 ng/Kg	0.600U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0907 ng/Kg	0.0907U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0363 ng/Kg	0.0363U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0339 ng/Kg	0.0339U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0378 ng/Kg	0.0378U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0596 ng/Kg	0.0596U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0750 ng/Kg	0.0750U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0456 ng/Kg	0.0456U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0572 ng/Kg	0.0572U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0399 ng/Kg	0.0399U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	OCDD	2.65 ng/Kg	2.65U ng/Kg
SL-008-SA8N-SB-9.0-10.0(RES)	OCDF	0.302 ng/Kg	0.302U ng/Kg
SL-164-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.215 ng/Kg	0.215U ng/Kg
SL-164-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.197 ng/Kg	0.197U ng/Kg
SL-164-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0544 ng/Kg	0.0544U ng/Kg
SL-165-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.322 ng/Kg	0.322U ng/Kg
SL-165-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0640 ng/Kg	0.0640U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.140 ng/Kg	0.140U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.204 ng/Kg	0.204U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.214 ng/Kg	0.214U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.336 ng/Kg	0.336U ng/Kg
SL-170-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0480 ng/Kg	0.0480U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-171-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.421 ng/Kg	0.421U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.119 ng/Kg	0.119U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0679 ng/Kg	0.0679U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.203 ng/Kg	0.203U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.172 ng/Kg	0.172U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0626 ng/Kg	0.0626U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.141 ng/Kg	0.141U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.196 ng/Kg	0.196U ng/Kg
SL-172-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0650 ng/Kg	0.0650U ng/Kg
SL-173-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.403 ng/Kg	0.403U ng/Kg
SL-173-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.223 ng/Kg	0.223U ng/Kg
SL-173-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg
SL-173-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0375 ng/Kg	0.0375U ng/Kg
SL-174-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.396 ng/Kg	0.396U ng/Kg
SL-174-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.203 ng/Kg	0.203U ng/Kg
SL-174-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.291 ng/Kg	0.291U ng/Kg
SL-174-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.124 ng/Kg	0.124U ng/Kg
SL-175-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0863 ng/Kg	0.0863U ng/Kg
SL-176-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.343 ng/Kg	0.343U ng/Kg
SL-176-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.366 ng/Kg	0.366U ng/Kg
SL-176-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.327 ng/Kg	0.327U ng/Kg
SL-176-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0980 ng/Kg	0.0980U ng/Kg
SL-179-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.146 ng/Kg	0.146U ng/Kg
SL-179-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-179-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-179-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.389 ng/Kg	0.389U ng/Kg
SL-179-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0659 ng/Kg	0.0659U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.126 ng/Kg	0.126U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.161 ng/Kg	0.161U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.195 ng/Kg	0.195U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.305 ng/Kg	0.305U ng/Kg
SL-180-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0482 ng/Kg	0.0482U ng/Kg
SL-181-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.399 ng/Kg	0.399U ng/Kg
SL-181-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0453 ng/Kg	0.0453U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.178 ng/Kg	0.178U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.152 ng/Kg	0.152U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.125 ng/Kg	0.125U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-182-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0698 ng/Kg	0.0698U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.259 ng/Kg	0.259U ng/Kg
SL-182-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0212 ng/Kg	0.0212U ng/Kg
SL-183-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-183-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.199 ng/Kg	0.199U ng/Kg
SL-183-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-183-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0596 ng/Kg	0.0596U ng/Kg
SL-183-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.282 ng/Kg	0.282U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0870 ng/Kg	0.0870U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0939 ng/Kg	0.0939U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.106 ng/Kg	0.106U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.242 ng/Kg	0.242U ng/Kg
SL-184-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0441 ng/Kg	0.0441U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-002-SA8N-SB-4.0-5.0	DUP09-SA8N-QC-052611			
MOISTURE	16.3	15.3	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-002-SA8N-SB-4.0-5.0	DUP09-SA8N-QC-052611			
1,2,3,4,7,8,9-HPCDF	0.0386	0.0500	26	50.00	
1,2,3,4,7,8-HXCDF	0.0223	0.0210	6	50.00	
1,2,3,6,7,8-HXCDD	0.0295	0.0196	40	50.00	
1,2,3,6,7,8-HXCDF	0.0257	0.0253	2	50.00	
1,2,3,7,8,9-HXCDF	0.0345	0.0377	9	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.0398	0.0255	44	50.00	
1,2,3,7,8-PECDF	0.0511	0.0318	47	50.00	
2,3,4,7,8-PECDF	0.0831	0.0611	31	50.00	
OCDF	0.131	0.173	28	50.00	
1,2,3,4,6,7,8-HPCDD	0.519	0.193	92	50.00	
1,2,3,4,6,7,8-HPCDF	0.0465	0.128	93	50.00	
1,2,3,4,7,8-HxCDD	0.0232	5.86 U	200	50.00	
1,2,3,7,8,9-HXCDD	0.0642	0.0217	99	50.00	J(all detects)
2,3,4,6,7,8-HXCDF	0.0277	0.0688	85	50.00	UJ(all non-detects)
2,3,7,8-TCDD	0.0342	1.17 U	200	50.00	
2,3,7,8-TCDF	0.0368	1.17 U	200	50.00	
OCDD	1.49	0.568	90	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB09-SA5DN-SS-052611	1,2,3,4,6,7,8-HPCDD	JBQ	5.91	10.8	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.601	10.8	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.365	10.8	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.256	10.8	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.287	10.8	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.345	10.8	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.429	10.8	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.183	10.8	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.349	10.8	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.169	10.8	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.426	10.8	PQL	pg/L	
	OCDD	JB	14.2	21.5	PQL	pg/L	
	OCDF	JBQ	1.12	21.5	PQL	pg/L	
EB11-SA8N-SB-052611	1,2,3,4,6,7,8-HPCDD	JB	2.70	10.1	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.71	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.593	10.1	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.457	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.439	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.323	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.483	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.579	10.1	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.411	10.1	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.247	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.882	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.695	10.1	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.301	2.02	PQL	pg/L	
	OCDD	JB	6.60	20.2	PQL	pg/L	
	OCDF	JB	2.18	20.2	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA8N-QC-052611	1,2,3,4,6,7,8-HPCDD	JBQ	0.193	5.86	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.128	5.86	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0500	5.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0210	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0196	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0253	5.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0217	5.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0377	5.86	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0255	5.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0318	5.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0688	5.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0611	5.86	PQL	ng/Kg	
	OCDD	JBQ	0.568	11.7	PQL	ng/Kg	
	OCDF	JBQ	0.173	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.519	5.87	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0465	5.87	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0386	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0232	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0223	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0295	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0257	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0642	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0345	5.87	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0398	5.87	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0511	5.87	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0277	5.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0831	5.87	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0342	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0368	1.17	PQL	ng/Kg	
	OCDD	JB	1.49	11.7	PQL	ng/Kg	
	OCDF	JB	0.131	11.7	PQL	ng/Kg	
SL-002-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.520	5.84	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.232	5.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.257	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.122	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.233	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.102	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.172	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.154	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.204	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0895	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0849	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.182	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.111	5.84	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0355	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0223	1.17	PQL	ng/Kg	
	OCDD	JBQ	2.00	11.7	PQL	ng/Kg	
	OCDF	JB	0.578	11.7	PQL	ng/Kg	
SL-008-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.07	5.85	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.438	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.265	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.237	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.313	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.252	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.214	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.355	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.321	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.188	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.225	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.278	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.241	5.85	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0719	1.17	PQL	ng/Kg	
	OCDD	JB	3.93	11.7	PQL	ng/Kg	
	OCDF	JB	1.04	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.600	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0907	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0363	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0339	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0378	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0596	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0489	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0750	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0456	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0572	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0487	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0399	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0862	5.69	PQL	ng/Kg	
	OCDD	JB	2.65	11.4	PQL	ng/Kg	
	OCDF	JB	0.302	11.4	PQL	ng/Kg	
SL-164-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.94	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.215	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.191	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.494	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.881	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.261	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.854	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.605	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.197	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.531	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.419	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.804	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0544	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.386	1.08	PQL	ng/Kg	
	OCDF	JB	5.29	10.8	PQL	ng/Kg	
SL-165-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.04	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.622	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.617	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.35	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.631	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.06	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.322	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.345	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.86	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.753	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.749	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0640	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.524	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-170-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.31	5.00	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.625	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.105	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.140	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.314	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.286	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.229	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.206	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.204	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.273	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.287	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.214	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.336	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0480	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0809	1.00	PQL	ng/Kg	
	OCDF	JB	2.27	10.0	PQL	ng/Kg	
SL-171-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.421	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.74	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.783	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.729	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.49	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.88	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.324	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.975	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.07	5.24	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.220	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.225	1.05	PQL	ng/Kg	
SL-172-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.20	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.136	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.119	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0679	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.430	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.110	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.376	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.203	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.172	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0626	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.141	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.196	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0650	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0468	1.06	PQL	ng/Kg	
	OCDF	JB	2.65	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.403	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.460	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.480	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.80	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.676	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.08	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.223	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.230	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.177	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.665	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.898	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0375	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.380	1.05	PQL	ng/Kg	
SL-174-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.48	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.396	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.288	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.408	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.09	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.311	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.646	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.203	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.291	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.465	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.376	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.407	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.124	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.181	1.02	PQL	ng/Kg	
	OCDF	JB	8.25	10.2	PQL	ng/Kg	
SL-175-SA5DN-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JBQ	1.80	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.53	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.65	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.34	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.464	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.06	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.307	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.76	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.528	5.21	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0863	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.146	1.04	PQL	ng/Kg	
SL-176-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.13	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.343	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.261	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.51	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.24	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.984	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.933	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.366	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.327	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.483	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.473	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.566	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0980	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.364	1.03	PQL	ng/Kg	
	OCDF	JB	4.22	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-179-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.37	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.146	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.208	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.207	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.526	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.220	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.378	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.189	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.277	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.260	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.231	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.389	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0659	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.323	1.05	PQL	ng/Kg	
	OCDF	JB	3.18	10.5	PQL	ng/Kg	
SL-180-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.06	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.126	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.161	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.316	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.371	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.179	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.276	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.195	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.284	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.243	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.168	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.305	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0482	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.115	1.02	PQL	ng/Kg	
	OCDF	JB	3.19	10.2	PQL	ng/Kg	
SL-181-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.399	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.576	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.20	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.22	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.490	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.26	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.469	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.382	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.301	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.521	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.759	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0453	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.526	1.04	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX093 **Laboratory: LL**

EDD Filename: DX093_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-182-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.95	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.178	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.152	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.472	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.566	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.132	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.407	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.135	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.125	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0698	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.174	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.259	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0212	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.167	1.05	PQL	ng/Kg	
	OCDF	JB	5.36	10.5	PQL	ng/Kg	
SL-183-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.53	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.195	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.402	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.199	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.19	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.254	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.835	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.138	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.357	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0596	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.270	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.282	5.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.104	1.02	PQL	ng/Kg	
	OCDF	JB	5.25	10.2	PQL	ng/Kg	
SL-184-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.898	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.104	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0870	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.374	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.318	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0939	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.264	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.107	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.106	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0636	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.118	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.242	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0441	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.161	1.03	PQL	ng/Kg	
	OCDF	JB	2.26	10.3	PQL	ng/Kg	

LDC #: 26250C

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: CR
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Column	Qualifications
		SL-176-SA-SD-SS-0.0-0.5	2,3,7,8-TCDF	SP2331	R, A

Comments: _____

SAMPLE DELIVERY GROUP

DX094

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-May-2011	DUP09-SA5DN-QC-052711	6301508	FD	METHOD	1613B	III
27-May-2011	SL-091-SA5DN-SS-0.0-0.5	6301498	N	METHOD	1613B	III
27-May-2011	SL-092-SA5DN-SS-0.0-0.5	6301499	N	METHOD	1613B	III
27-May-2011	SL-093-SA5DN-SS-0.0-0.5	6301500	N	METHOD	1613B	III
27-May-2011	SL-117-SA5DN-SS-0.0-0.5	6301501	N	METHOD	1613B	III
27-May-2011	SL-117-SA5DN-SS-0.0-0.5MS	6301502	MS	METHOD	1613B	III
27-May-2011	SL-117-SA5DN-SS-0.0-0.5MSD	6301503	MSD	METHOD	1613B	III
27-May-2011	SL-118-SA5DN-SS-0.0-0.5	6301504	N	METHOD	1613B	III
27-May-2011	SL-119-SA5DN-SS-0.0-0.5	6301505	N	METHOD	1613B	III
27-May-2011	SL-071-SA5DN-SS-0.0-0.5	6301497	N	METHOD	1613B	III
27-May-2011	SL-122-SA5DN-SS-0.0-0.5	6301507	N	METHOD	1613B	III
27-May-2011	SL-003-SA8N-SB-4.0-5.0	6301509	N	METHOD	1613B	III
27-May-2011	SL-003-SA8N-SB-9.0-10.0	6301510	N	METHOD	1613B	III
27-May-2011	SL-120-SA5DN-SS-0.0-0.5	6301506	N	METHOD	1613B	III
31-May-2011	SL-013-SA5DN-SB-9.0-10.0	6302810	N	METHOD	1613B	III
31-May-2011	SL-008-SA5DN-SB-4.0-5.0	6302804	N	METHOD	1613B	III
31-May-2011	SL-008-SA5DN-SB-9.0-10.0	6302805	N	METHOD	1613B	III
31-May-2011	SL-010-SA5DN-SB-4.0-5.0	6302806	N	METHOD	1613B	III
31-May-2011	SL-010-SA5DN-SB-9.0-10.0	6302807	N	METHOD	1613B	III
31-May-2011	DUP-10-SA5DN-QC-053111	6302808	FD	METHOD	1613B	III
31-May-2011	SL-013-SA5DN-SB-4.0-5.0	6302809	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP09-SA5DN-QC-052711 *Collected:* 5/27/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	95.1	B	0.119	MDL	5.50	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	7.10	B	0.0331	MDL	5.50	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	0.544	JB	0.0397	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.817	J	0.0501	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.633	JB	0.0383	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	3.25	JB	0.0519	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.454	JB	0.0367	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	2.34	JB	0.0492	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	1.25	JB	0.0398	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.526	JB	0.0444	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.560	JB	0.0328	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.727	JB	0.0365	MDL	5.50	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	1.07	JB	0.0295	MDL	5.50	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0789	JB	0.0149	MDL	1.10	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.255	JB	0.0562	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	1510	B	0.0859	MDL	11.0	PQL	ng/Kg	J	FD
OCDF	25.7	B	0.0310	MDL	11.0	PQL	ng/Kg	J	FD

Sample ID: DUP-10-SA5DN-QC-053111 *Collected:* 5/31/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.594	JBQ	0.0264	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.198	JB	0.0121	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0355	JBQ	0.0218	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0136	U	0.0136	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0545	JB	0.00962	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0227	JBQ	0.0143	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0269	JBQ	0.00848	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0490	JBQ	0.0136	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0233	JBQ	0.0103	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0199	JB	0.0154	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0304	JBQ	0.00792	MDL	5.51	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0658	JBQ	0.00882	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0641	JB	0.00826	MDL	5.51	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 Laboratory: LL

EDD Filename: DX094_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP-10-SA5DN-QC-053111 *Collected:* 5/31/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0230	JBQ	0.0160	MDL	1.10	PQL	ng/Kg	U	B
OCDD	2.38	JB	0.0264	MDL	11.0	PQL	ng/Kg	UJ	B, FD
OCDF	0.214	JBQ	0.0284	MDL	11.0	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-003-SA8N-SB-4.0-5.0 *Collected:* 5/27/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.535	JB	0.0296	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0675	JBQ	0.0145	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0243	JB	0.0191	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0134	JBQ	0.00912	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0208	JBQ	0.0166	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0137	JBQ	0.00818	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0386	JBQ	0.0152	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0312	JBQ	0.00889	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0106	JBQ	0.00818	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0418	JBQ	0.00770	MDL	5.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0226	JBQ	0.0179	MDL	1.16	PQL	ng/Kg	U	B
OCDD	3.17	JB	0.0255	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.174	JBQ	0.0329	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-003-SA8N-SB-9.0-10.0 *Collected:* 5/27/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.582	JBQ	0.0489	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.129	JBQ	0.0195	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0876	JBQ	0.0263	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0515	JQ	0.0333	MDL	6.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0595	JB	0.0155	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0656	JBQ	0.0340	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0321	JB	0.0138	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0711	JBQ	0.0320	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0693	JBQ	0.0150	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0314	JBQ	0.0192	MDL	6.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0296	JB	0.0115	MDL	6.14	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 Laboratory: LL

EDD Filename: DX094_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-003-SA8N-SB-9.0-10.0 *Collected:* 5/27/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0411	JBQ	0.0138	MDL	6.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0732	JB	0.0103	MDL	6.14	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0435	JBQ	0.0183	MDL	1.23	PQL	ng/Kg	U	B
OCDD	1.59	JB	0.0396	MDL	12.3	PQL	ng/Kg	U	B
OCDF	0.273	JB	0.0399	MDL	12.3	PQL	ng/Kg	U	B

Sample ID: SL-008-SA5DN-SB-4.0-5.0 *Collected:* 5/31/2011 3:44:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.428	JBQ	0.0329	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0757	JBQ	0.0125	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0382	JBQ	0.0152	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0243	J	0.0180	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0296	JBQ	0.0129	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0220	JB	0.0194	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0225	JB	0.0116	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0536	JBQ	0.0181	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0474	JBQ	0.0115	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0213	JBQ	0.00997	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0277	JB	0.0108	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0463	JB	0.00892	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0273	JBQ	0.0187	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0191	JBQ	0.0151	MDL	1.15	PQL	ng/Kg	U	B
OCDD	1.19	JB	0.0342	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.163	JB	0.0294	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-008-SA5DN-SB-9.0-10.0 *Collected:* 5/31/2011 3:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.425	JB	0.0238	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0823	JB	0.00957	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0332	JBQ	0.0128	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0411	J	0.0151	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0748	JB	0.00990	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0645	JBQ	0.0156	MDL	5.52	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-008-SA5DN-SB-9.0-10.0** ***Collected:*** **5/31/2011 3:49:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0645	JB	0.00957	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0762	JBQ	0.0148	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0544	JB	0.0109	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0779	JBQ	0.0145	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.112	JB	0.00768	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0584	JB	0.00979	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.121	JB	0.00712	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0141	JB	0.0133	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0153	JBQ	0.0127	MDL	1.10	PQL	ng/Kg	U	B
OCDD	1.29	JB	0.0263	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.127	JB	0.0216	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: **SL-010-SA5DN-SB-4.0-5.0** ***Collected:*** **5/31/2011 2:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.481	JB	0.0237	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.260	JB	0.0101	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0480	JB	0.0139	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0762	JQ	0.0157	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.164	JB	0.0156	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0882	JB	0.0162	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.134	JBQ	0.0143	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0865	JBQ	0.0149	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.110	JB	0.0164	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.133	JB	0.0162	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.215	JB	0.00826	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.153	JBQ	0.0147	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.208	JB	0.00803	MDL	5.56	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0448	JBQ	0.0138	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0252	JBQ	0.0108	MDL	1.11	PQL	ng/Kg	U	B
OCDD	1.31	JB	0.0266	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.228	JB	0.0216	MDL	11.1	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX094 Laboratory: LL

EDD Filename: DX094_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-010-SA5DN-SB-9.0-10.0 *Collected:* 5/31/2011 2:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.445	JB	0.0219	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.207	JB	0.00882	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0541	JBQ	0.0123	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0458	JQ	0.0131	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0610	JB	0.0116	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0725	JBQ	0.0139	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0668	JB	0.0109	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0733	JBQ	0.0128	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0670	JB	0.0121	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0527	JBQ	0.0135	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0594	JB	0.00813	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0817	JB	0.0110	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.102	JB	0.00756	MDL	5.62	PQL	ng/Kg	U	B
OCDD	1.13	JB	0.0242	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.201	JBQ	0.0220	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-013-SA5DN-SB-4.0-5.0 *Collected:* 5/31/2011 10:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.422	JB	0.0195	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.217	JB	0.00844	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0278	JB	0.0138	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0299	JBQ	0.0131	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.131	JBQ	0.0158	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0427	JB	0.0113	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.237	JB	0.0153	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.268	JB	0.0127	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0197	JBQ	0.0145	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0362	JBQ	0.00763	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0577	JBQ	0.0121	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0825	JBQ	0.00751	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0203	JBQ	0.0132	MDL	1.13	PQL	ng/Kg	U	B
OCDD	1.32	JB	0.0276	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.207	JB	0.0239	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-013-SA5DN-SB-9.0-10.0 *Collected:* 5/31/2011 10:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.445	JB	0.0218	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.208	JBQ	0.00788	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0233	JBQ	0.0130	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0438	JBQ	0.0107	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0277	JBQ	0.0116	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0250	JBQ	0.00982	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0238	JBQ	0.0112	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0135	JB	0.00788	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0716	JBQ	0.00970	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0384	JBQ	0.00742	MDL	5.53	PQL	ng/Kg	U	B
OCDD	0.990	JBQ	0.0299	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.184	JB	0.0209	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-071-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 8:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.502	JB	0.0842	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.06	J	0.130	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.720	JB	0.0731	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.24	JB	0.137	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.550	JB	0.0720	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.74	JB	0.129	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.478	JB	0.0827	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.561	JB	0.0522	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.11	JB	0.0622	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.517	JB	0.0691	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.743	JB	0.0576	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0837	JB	0.0233	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.397	JB	0.134	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-091-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.655	JB	0.0772	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.985	J	0.0975	MDL	5.38	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-091-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.773	JB	0.0728	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.37	JB	0.102	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.447	JBQ	0.0686	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.52	JB	0.0985	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.00	JBQ	0.0899	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.951	JBQ	0.0534	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.747	JB	0.0459	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.657	JB	0.0696	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.714	JB	0.0463	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0818	JB	0.0225	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.302	JB	0.101	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-092-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.39	JB	0.0383	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.334	JB	0.0503	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.503	J	0.0698	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.746	JB	0.0540	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.95	JB	0.0725	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.358	JB	0.0526	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.64	JB	0.0706	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.958	JB	0.0589	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.315	JB	0.0438	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.679	JB	0.0483	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.492	JB	0.0523	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.790	JB	0.0465	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0317	JBQ	0.0223	MDL	1.07	PQL	ng/Kg	U	B

Sample ID: SL-093-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.53	JB	0.0412	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.360	JB	0.0539	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.583	JQ	0.102	MDL	5.43	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-093-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.582	JB	0.0639	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.23	JB	0.111	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.340	JBQ	0.0616	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.78	JB	0.105	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.13	JB	0.0713	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.400	JB	0.0511	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.606	JB	0.0511	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.537	JB	0.0609	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.936	JB	0.0477	MDL	5.43	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0487	JB	0.0245	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.310	JB	0.0854	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-117-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	15.6	B	0.0886	MDL	5.50	PQL	ng/Kg	J	Q, FD
1,2,3,4,6,7,8-HPCDF	2.47	JB	0.101	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.165	JB	0.146	MDL	5.50	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.180	J	0.0755	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.137	JBQ	0.0593	MDL	5.50	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.855	JB	0.0802	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.215	JB	0.0572	MDL	5.50	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.693	JB	0.0779	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.642	JB	0.0696	MDL	5.50	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.127	JBQ	0.0413	MDL	5.50	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.757	JB	0.0441	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.206	JB	0.0572	MDL	5.50	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.300	JBQ	0.0425	MDL	5.50	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0217	U	0.0217	MDL	1.10	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.219	JB	0.0981	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	180	B	0.101	MDL	11.0	PQL	ng/Kg	J	Q, Q, FD
OCDF	7.02	JB	0.0602	MDL	11.0	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-118-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.07	JB	0.0305	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.348	JBQ	0.0432	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.327	J	0.0727	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.485	JB	0.0559	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.83	JB	0.0766	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.373	JB	0.0540	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.43	JB	0.0758	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.38	JB	0.0613	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.407	JB	0.0431	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.454	JB	0.0206	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.363	JB	0.0546	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.417	JB	0.0200	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0941	JB	0.0195	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.150	JBQ	0.0352	MDL	1.05	PQL	ng/Kg	U	B

Sample ID: SL-119-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.98	JB	0.103	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.41	J	0.132	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.88	JB	0.0711	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.70	JB	0.0698	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.55	JB	0.0711	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.97	JB	0.0814	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.31	JB	0.0563	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.12	JB	0.0684	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.45	JB	0.0530	MDL	5.49	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.226	JB	0.0203	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.722	JB	0.117	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	17900	EB	0.371	MDL	11.0	PQL	ng/Kg	J	*XI

Sample ID: SL-120-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.28	JB	0.0755	MDL	5.27	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-120-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	2.29	J	0.0932	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.46	JB	0.0687	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.941	JB	0.0645	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.40	JB	0.0648	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.20	JB	0.0756	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.07	JB	0.0545	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.12	JB	0.0610	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.27	JB	0.0516	MDL	5.27	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.161	JB	0.0237	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.532	JB	0.116	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	5320	EB	0.195	MDL	10.5	PQL	ng/Kg	J	*XI

Sample ID: SL-122-SA5DN-SS-0.0-0.5 *Collected:* 5/27/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.69	JB	0.0439	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.401	JBQ	0.0472	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.15	J	0.0844	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.494	JB	0.0569	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.24	JB	0.0885	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.345	JBQ	0.0547	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.05	JB	0.0840	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.27	JB	0.0527	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.98	JB	0.0604	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.416	JB	0.0404	MDL	5.78	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.484	JB	0.0495	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.270	JB	0.0368	MDL	5.78	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.155	JBQ	0.0225	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.389	JB	0.0987	MDL	1.16	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and Reported CRQLs
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX094

Method Blank Outlier Report

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1610B371343	6/14/2011 1:43:00 PM	1,2,3,4,6,7,8-HPCDD	0.392 ng/Kg	DUP09-SA5DN-QC-052711
		1,2,3,4,6,7,8-HPCDF	0.236 ng/Kg	DUP-10-SA5DN-QC-053111
		1,2,3,4,7,8,9-HPCDF	0.107 ng/Kg	SL-003-SA8N-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0820 ng/Kg	SL-003-SA8N-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0749 ng/Kg	SL-008-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0553 ng/Kg	SL-008-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0576 ng/Kg	SL-010-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0995 ng/Kg	SL-010-SA5DN-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0393 ng/Kg	SL-013-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0495 ng/Kg	SL-013-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0978 ng/Kg	SL-071-SA5DN-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0792 ng/Kg	SL-091-SA5DN-SS-0.0-0.5
		2,3,7,8-TCDD	0.0293 ng/Kg	SL-092-SA5DN-SS-0.0-0.5
		2,3,7,8-TCDF	0.0325 ng/Kg	SL-093-SA5DN-SS-0.0-0.5
		OCDD	0.908 ng/Kg	SL-117-SA5DN-SS-0.0-0.5
		OCDF	0.347 ng/Kg	SL-118-SA5DN-SS-0.0-0.5
				SL-119-SA5DN-SS-0.0-0.5
				SL-120-SA5DN-SS-0.0-0.5
				SL-122-SA5DN-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP09-SA5DN-QC-052711(RES)	2,3,7,8-TCDD	0.0789 ng/Kg	0.0789U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,4,6,7,8-HPCDD	0.594 ng/Kg	0.594U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,4,6,7,8-HPCDF	0.198 ng/Kg	0.198U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,4,7,8,9-HPCDF	0.0355 ng/Kg	0.0355U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,4,7,8-HXCDF	0.0545 ng/Kg	0.0545U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,6,7,8-HXCDD	0.0227 ng/Kg	0.0227U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,6,7,8-HXCDF	0.0269 ng/Kg	0.0269U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,7,8,9-HXCDD	0.0490 ng/Kg	0.0490U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,7,8,9-HXCDF	0.0233 ng/Kg	0.0233U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,7,8-PECDD	0.0199 ng/Kg	0.0199U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	1,2,3,7,8-PECDF	0.0304 ng/Kg	0.0304U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	2,3,4,6,7,8-HXCDF	0.0658 ng/Kg	0.0658U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	2,3,4,7,8-PECDF	0.0641 ng/Kg	0.0641U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	2,3,7,8-TCDD	0.0230 ng/Kg	0.0230U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	OCDD	2.38 ng/Kg	2.38U ng/Kg
DUP-10-SA5DN-QC-053111(RES)	OCDF	0.214 ng/Kg	0.214U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.535 ng/Kg	0.535U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0675 ng/Kg	0.0675U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0134 ng/Kg	0.0134U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0208 ng/Kg	0.0208U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0137 ng/Kg	0.0137U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0386 ng/Kg	0.0386U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0312 ng/Kg	0.0312U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0106 ng/Kg	0.0106U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX094 Laboratory: LL

EDD Filename: DX094_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-003-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0418 ng/Kg	0.0418U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0226 ng/Kg	0.0226U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	OCDD	3.17 ng/Kg	3.17U ng/Kg
SL-003-SA8N-SB-4.0-5.0(RES)	OCDF	0.174 ng/Kg	0.174U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.582 ng/Kg	0.582U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0876 ng/Kg	0.0876U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0595 ng/Kg	0.0595U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0656 ng/Kg	0.0656U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0711 ng/Kg	0.0711U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0693 ng/Kg	0.0693U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0296 ng/Kg	0.0296U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0732 ng/Kg	0.0732U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0435 ng/Kg	0.0435U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	OCDD	1.59 ng/Kg	1.59U ng/Kg
SL-003-SA8N-SB-9.0-10.0(RES)	OCDF	0.273 ng/Kg	0.273U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.428 ng/Kg	0.428U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0757 ng/Kg	0.0757U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0382 ng/Kg	0.0382U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0296 ng/Kg	0.0296U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0220 ng/Kg	0.0220U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0536 ng/Kg	0.0536U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0474 ng/Kg	0.0474U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0213 ng/Kg	0.0213U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0273 ng/Kg	0.0273U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0191 ng/Kg	0.0191U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	OCDD	1.19 ng/Kg	1.19U ng/Kg
SL-008-SA5DN-SB-4.0-5.0(RES)	OCDF	0.163 ng/Kg	0.163U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.425 ng/Kg	0.425U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0823 ng/Kg	0.0823U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0332 ng/Kg	0.0332U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX094 **Laboratory:** LL

EDD Filename: DX094_v1 **eQAPP Name:** CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0748 ng/Kg	0.0748U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0645 ng/Kg	0.0645U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0645 ng/Kg	0.0645U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0762 ng/Kg	0.0762U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0544 ng/Kg	0.0544U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0779 ng/Kg	0.0779U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0584 ng/Kg	0.0584U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0141 ng/Kg	0.0141U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0153 ng/Kg	0.0153U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	OCDD	1.29 ng/Kg	1.29U ng/Kg
SL-008-SA5DN-SB-9.0-10.0(RES)	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.481 ng/Kg	0.481U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.260 ng/Kg	0.260U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0480 ng/Kg	0.0480U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.164 ng/Kg	0.164U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0882 ng/Kg	0.0882U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0865 ng/Kg	0.0865U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.133 ng/Kg	0.133U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.215 ng/Kg	0.215U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.153 ng/Kg	0.153U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.208 ng/Kg	0.208U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0448 ng/Kg	0.0448U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0252 ng/Kg	0.0252U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	OCDD	1.31 ng/Kg	1.31U ng/Kg
SL-010-SA5DN-SB-4.0-5.0(RES)	OCDF	0.228 ng/Kg	0.228U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.445 ng/Kg	0.445U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.207 ng/Kg	0.207U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0725 ng/Kg	0.0725U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0668 ng/Kg	0.0668U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0733 ng/Kg	0.0733U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0670 ng/Kg	0.0670U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0527 ng/Kg	0.0527U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0817 ng/Kg	0.0817U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	OCDD	1.13 ng/Kg	1.13U ng/Kg
SL-010-SA5DN-SB-9.0-10.0(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.422 ng/Kg	0.422U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.217 ng/Kg	0.217U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0278 ng/Kg	0.0278U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0299 ng/Kg	0.0299U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.131 ng/Kg	0.131U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.237 ng/Kg	0.237U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.268 ng/Kg	0.268U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0197 ng/Kg	0.0197U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0362 ng/Kg	0.0362U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0577 ng/Kg	0.0577U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0203 ng/Kg	0.0203U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	OCDD	1.32 ng/Kg	1.32U ng/Kg
SL-013-SA5DN-SB-4.0-5.0(RES)	OCDF	0.207 ng/Kg	0.207U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.445 ng/Kg	0.445U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0233 ng/Kg	0.0233U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0438 ng/Kg	0.0438U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0277 ng/Kg	0.0277U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0250 ng/Kg	0.0250U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0238 ng/Kg	0.0238U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0135 ng/Kg	0.0135U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0716 ng/Kg	0.0716U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0384 ng/Kg	0.0384U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	OCDD	0.990 ng/Kg	0.990U ng/Kg
SL-013-SA5DN-SB-9.0-10.0(RES)	OCDF	0.184 ng/Kg	0.184U ng/Kg
SL-071-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.502 ng/Kg	0.502U ng/Kg
SL-071-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.478 ng/Kg	0.478U ng/Kg
SL-071-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0837 ng/Kg	0.0837U ng/Kg
SL-091-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0818 ng/Kg	0.0818U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-092-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.334 ng/Kg	0.334U ng/Kg
SL-092-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-093-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.360 ng/Kg	0.360U ng/Kg
SL-093-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0487 ng/Kg	0.0487U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.215 ng/Kg	0.215U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.127 ng/Kg	0.127U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.206 ng/Kg	0.206U ng/Kg
SL-117-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.300 ng/Kg	0.300U ng/Kg
SL-118-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.348 ng/Kg	0.348U ng/Kg
SL-118-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.363 ng/Kg	0.363U ng/Kg
SL-118-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0941 ng/Kg	0.0941U ng/Kg
SL-118-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.150 ng/Kg	0.150U ng/Kg
SL-122-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.401 ng/Kg	0.401U ng/Kg
SL-122-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.484 ng/Kg	0.484U ng/Kg
SL-122-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.270 ng/Kg	0.270U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-117-SA5DN-SS-0.0-0.5MS	1,2,3,4,6,7,8-HPCDD	172	197	40.00-135.00	-	1,2,3,4,6,7,8-HPCDD	
SL-117-SA5DN-SS-0.0-0.5MSD (SL-117-SA5DN-SS-0.0-0.5)	OCDD	781	986	40.00-135.00	23 (20.00)	OCDD	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-117-SA5DN-SS-0.0-0.5	DUP09-SA5DN-QC-052711			
MOISTURE	9.5	9.5	0		No Qualifiers Applied

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-014-SA5DN-SB-4.0-5.0	DUP-10-SA5DN-QC-053111			
MOISTURE	12.300000000	11.6	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-117-SA5DN-SS-0.0-0.5	DUP09-SA5DN-QC-052711			
1,2,3,7,8-PECDF	0.757	0.560	30	50.00	No Qualifiers Applied
2,3,7,8-TCDF	0.219	0.255	15	50.00	
1,2,3,4,6,7,8-HPCDD	15.6	95.1	144	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	2.47	7.10	97	50.00	
1,2,3,4,7,8,9-HPCDF	0.165	0.544	107	50.00	
1,2,3,4,7,8-HxCDD	0.180	0.817	128	50.00	
1,2,3,4,7,8-HXCDF	0.137	0.633	129	50.00	
1,2,3,6,7,8-HXCDD	0.855	3.25	117	50.00	
1,2,3,6,7,8-HXCDF	0.215	0.454	71	50.00	
1,2,3,7,8,9-HXCDD	0.693	2.34	109	50.00	
1,2,3,7,8,9-HXCDF	0.642	1.25	64	50.00	
1,2,3,7,8-PECDD	0.127	0.526	122	50.00	
2,3,4,6,7,8-HXCDF	0.206	0.727	112	50.00	
2,3,4,7,8-PECDF	0.300	1.07	112	50.00	
2,3,7,8-TCDD	1.10 U	0.0789	200	50.00	
OCDD	180	1510	157	50.00	
OCDF	7.02	25.7	114	50.00	

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-014-SA5DN-SB-4.0-5.0	DUP-10-SA5DN-QC-053111			
1,2,3,4,6,7,8-HPCDD	0.723	0.594	20	50.00	J (all detects) UJ (all non-detects) 1,2,3,4,6,7,8-HPCDD, 2,3,4,6,7,8-HXCDF, 2,3,7,8-TCDD No Qual, Within Limits
1,2,3,4,6,7,8-HPCDF	0.118	0.198	51	50.00	
1,2,3,4,7,8,9-HPCDF	0.132	0.0355	115	50.00	
1,2,3,4,7,8-HxCDD	0.0832	5.51 U	200	50.00	
1,2,3,4,7,8-HXCDF	5.58 U	0.0545	200	50.00	
1,2,3,6,7,8-HXCDD	0.102	0.0227	127	50.00	
1,2,3,6,7,8-HXCDF	0.0759	0.0269	95	50.00	
1,2,3,7,8,9-HXCDD	0.0975	0.0490	66	50.00	
1,2,3,7,8,9-HXCDF	0.106	0.0233	128	50.00	
1,2,3,7,8-PECDD	0.0696	0.0199	111	50.00	
1,2,3,7,8-PECDF	0.0708	0.0304	80	50.00	
2,3,4,6,7,8-HXCDF	0.0768	0.0658	15	50.00	
2,3,4,7,8-PECDF	0.117	0.0641	58	50.00	
2,3,7,8-TCDD	0.0223	0.0230	3	50.00	
OCDD	5.37	2.38	77	50.00	
OCDF	0.385	0.214	57	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP09-SA5DN-QC-052711	1,2,3,4,7,8,9-HPCDF	JB	0.544	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.817	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.633	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.25	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.454	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.34	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.25	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.526	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.560	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.727	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.07	5.50	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0789	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.255	1.10	PQL	ng/Kg	
DUP-10-SA5DN-QC-053111	1,2,3,4,6,7,8-HPCDD	JBQ	0.594	5.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.198	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0355	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0545	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0227	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0269	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0490	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0233	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0199	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0304	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0658	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0641	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0230	1.10	PQL	ng/Kg	
	OCDD	JB	2.38	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.214	11.0	PQL	ng/Kg	
SL-003-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.535	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0675	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0243	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0134	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0208	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0137	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0386	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0312	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0106	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0418	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0226	1.16	PQL	ng/Kg	
	OCDD	JB	3.17	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.174	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-003-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.582	6.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.129	6.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0876	6.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0515	6.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0595	6.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0656	6.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0321	6.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0711	6.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0693	6.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0314	6.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0296	6.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0411	6.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0732	6.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0435	1.23	PQL	ng/Kg	
	OCDD	JB	1.59	12.3	PQL	ng/Kg	
	OCDF	JB	0.273	12.3	PQL	ng/Kg	
SL-008-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.428	5.77	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0757	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0382	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0243	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0296	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0220	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0225	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0536	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0474	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0213	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0277	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0463	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0273	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0191	1.15	PQL	ng/Kg	
	OCDD	JB	1.19	11.5	PQL	ng/Kg	
	OCDF	JB	0.163	11.5	PQL	ng/Kg	
SL-008-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.425	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0823	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0332	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0411	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0748	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0645	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0645	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0762	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0544	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0779	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.112	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0584	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.121	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0141	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0153	1.10	PQL	ng/Kg	
	OCDD	JB	1.29	11.0	PQL	ng/Kg	
	OCDF	JB	0.127	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.481	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.260	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0480	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0762	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.164	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0882	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.134	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0865	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.110	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.133	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.215	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.153	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.208	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0448	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0252	1.11	PQL	ng/Kg	
	OCDD	JB	1.31	11.1	PQL	ng/Kg	
	OCDF	JB	0.228	11.1	PQL	ng/Kg	
SL-010-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.445	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.207	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0541	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0458	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0610	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0725	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0668	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0733	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0670	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0527	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0594	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0817	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.102	5.62	PQL	ng/Kg	
	OCDD	JB	1.13	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.201	11.2	PQL	ng/Kg	
SL-013-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.422	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.217	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0278	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0299	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.131	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0427	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.237	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.268	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0197	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0362	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0577	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0825	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0203	1.13	PQL	ng/Kg	
	OCDD	JB	1.32	11.3	PQL	ng/Kg	
	OCDF	JB	0.207	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-013-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.445	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.208	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0233	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0438	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0277	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0250	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0238	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0135	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0716	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0384	5.53	PQL	ng/Kg	
	OCDD	JBQ	0.990	11.1	PQL	ng/Kg	
	OCDF	JB	0.184	11.1	PQL	ng/Kg	
SL-071-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.502	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	1.06	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.720	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.24	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.550	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.74	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.478	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.561	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.11	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.517	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.743	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0837	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.397	1.08	PQL	ng/Kg	
SL-091-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.655	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.985	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.773	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.37	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.447	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.52	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	1.00	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.951	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.747	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.657	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.714	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0818	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.302	1.08	PQL	ng/Kg	
SL-092-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.39	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.334	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.503	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.746	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.95	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.358	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.64	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.958	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.315	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.679	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.492	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.790	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0317	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-093-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.53	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.360	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.583	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.582	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.23	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.340	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.78	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.13	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.400	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.606	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.537	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.936	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0487	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.310	1.09	PQL	ng/Kg	
SL-117-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.47	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.165	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.180	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.137	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.855	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.215	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.693	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.642	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.127	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.757	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.206	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.300	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.219	1.10	PQL	ng/Kg	
	OCDF	JB	7.02	11.0	PQL	ng/Kg	
SL-118-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.07	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.348	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.327	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.485	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.83	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.373	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.43	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.38	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.407	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.454	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.363	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.417	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0941	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.150	1.05	PQL	ng/Kg	
SL-119-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.98	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.41	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.88	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.70	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.55	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.97	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.31	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.12	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.45	5.49	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.226	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.722	1.10	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX094 **Laboratory: LL**

EDD Filename: DX094_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-120-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.28	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	2.29	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.46	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.941	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.40	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.20	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.07	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.12	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.27	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.161	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.532	1.05	PQL	ng/Kg	
SL-122-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.69	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.401	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	1.15	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.494	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.24	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.345	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.05	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.27	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.98	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.416	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.484	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.270	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.155	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.389	1.16	PQL	ng/Kg	

LDC #: 26250D

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

Page: 1 of 1

Reviewer: CR

2nd Reviewer: W

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?

Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		SL-119-SA-SDN-SS-0.0-0.5	OCDD >Cal range		J/P
		SL-120-SA-SDN-SS-0.0-0.5			

SAMPLE DELIVERY GROUP

DX095

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
31-May-2011	SL-102-SA5DN-SS-0.0-0.5	6302786	N	METHOD	1613B	III
31-May-2011	SL-014-SA5DN-SB-4.0-5.0MS	6302776	MS	METHOD	1613B	III
31-May-2011	SL-014-SA5DN-SB-4.0-5.0MSD	6302777	MSD	METHOD	1613B	III
31-May-2011	SL-014-SA5DN-SB-9.0-10.0	6302778	N	METHOD	1613B	III
31-May-2011	EB11-SA5DN-SB-053111	6302779	EB	METHOD	1613B	III
31-May-2011	SL-094-SA5DN-SS-0.0-0.5	6302780	N	METHOD	1613B	III
31-May-2011	SL-095-SA5DN-SS-0.0-0.5	6302781	N	METHOD	1613B	III
31-May-2011	SL-097-SA5DN-SS-0.0-0.5	6302782	N	METHOD	1613B	III
31-May-2011	SL-098-SA5DN-SS-0.0-0.5	6302783	N	METHOD	1613B	III
31-May-2011	SL-014-SA5DN-SB-4.0-5.0	6302775	N	METHOD	1613B	III
31-May-2011	SL-101-SA5DN-SS-0.0-0.5	6302785	N	METHOD	1613B	III
31-May-2011	EB10-SA5DN-SS-053111	6302796	EB	METHOD	1613B	III
31-May-2011	SL-103-SA5DN-SS-0.0-0.5	6302787	N	METHOD	1613B	III
31-May-2011	SL-104-SA5DN-SS-0.0-0.5	6302788	N	METHOD	1613B	III
31-May-2011	SL-110-SA5DN-SS-0.0-0.5	6302789	N	METHOD	1613B	III
31-May-2011	SL-111-SA5DN-SS-0.0-0.5	6302790	N	METHOD	1613B	III
31-May-2011	SL-112-SA5DN-SS-0.0-0.5	6302791	N	METHOD	1613B	III
31-May-2011	SL-113-SA5DN-SS-0.0-0.5	6302792	N	METHOD	1613B	III
31-May-2011	SL-114-SA5DN-SS-0.0-0.5	6302793	N	METHOD	1613B	III
31-May-2011	SL-121-SA5DN-SS-0.0-0.5	6302794	N	METHOD	1613B	III
31-May-2011	SL-125-SA5DN-SS-0.0-0.5	6302795	N	METHOD	1613B	III
31-May-2011	SL-099-SA5DN-SS-0.0-0.5	6302784	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX095 Laboratory: LL

EDD Filename: DX095_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB10-SA5DN-SS-053111 *Collected:* 5/31/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.37	JBQ	0.539	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.34	JB	0.264	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.949	JB	0.261	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	1.14	JBQ	0.418	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.974	JB	0.389	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.729	JBQ	0.344	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.707	JBQ	0.297	MDL	10.8	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	1.07	JB	0.273	MDL	10.8	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.704	JB	0.259	MDL	10.8	PQL	pg/L	U	B
OCDD	8.31	JB	0.526	MDL	21.7	PQL	pg/L	U	B
OCDF	3.04	JB	0.731	MDL	21.7	PQL	pg/L	U	B

Sample ID: EB11-SA5DN-SB-053111 *Collected:* 5/31/2011 12:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.31	JBQ	0.317	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.67	JBQ	0.144	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.454	JB	0.156	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.347	JBQ	0.202	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.656	JB	0.197	MDL	10.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.346	JBQ	0.221	MDL	10.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.656	JBQ	0.189	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.448	JBQ	0.205	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.833	JB	0.164	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.315	JB	0.257	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.368	JB	0.164	MDL	10.3	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.601	JB	0.150	MDL	10.3	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.841	JBQ	0.153	MDL	10.3	PQL	pg/L	U	B
OCDD	6.43	JB	0.326	MDL	20.7	PQL	pg/L	U	B
OCDF	2.24	JB	0.441	MDL	20.7	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 Laboratory: LL

EDD Filename: DX095_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-014-SA5DN-SB-4.0-5.0 *Collected:* 5/31/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.723	JB	0.0241	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.118	JB	0.0119	MDL	5.58	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.132	JB	0.0185	MDL	5.58	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0832	JBQ	0.0180	MDL	5.58	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0121	U	0.0121	MDL	5.58	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDD	0.102	JBQ	0.0179	MDL	5.58	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0759	JBQ	0.0107	MDL	5.58	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0975	JB	0.0180	MDL	5.58	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.106	JB	0.0139	MDL	5.58	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0696	JB	0.0225	MDL	5.58	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0708	JBQ	0.0117	MDL	5.58	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0768	JBQ	0.0116	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.117	JBQ	0.0120	MDL	5.58	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0223	JB	0.0201	MDL	1.12	PQL	ng/Kg	U	B
OCDD	5.37	JB	0.0252	MDL	11.2	PQL	ng/Kg	UJ	B, FD
OCDF	0.385	JB	0.0271	MDL	11.2	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-014-SA5DN-SB-9.0-10.0 *Collected:* 5/31/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.57	JB	0.438	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.80	JBQ	0.192	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	2.83	JB	0.383	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.88	JB	0.315	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.60	JBQ	0.264	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.84	JB	0.326	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.73	JBQ	0.224	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.86	JB	0.351	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.26	JBQ	0.356	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.82	JB	0.368	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.42	JB	0.172	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.45	JBQ	0.237	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.58	JB	0.183	MDL	5.75	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.449	JB	0.322	MDL	1.15	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-014-SA5DN-SB-9.0-10.0 *Collected:* 5/31/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.343	JBQ	0.337	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	5.43	JB	0.589	MDL	11.5	PQL	ng/Kg	U	B
OCDF	5.90	JB	0.774	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-094-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 8:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.64	JB	0.0210	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.376	JB	0.0269	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.469	JBQ	0.0345	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.661	JB	0.0285	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.25	JB	0.0357	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.422	JBQ	0.0253	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.60	JB	0.0346	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.01	JB	0.0245	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.411	JB	0.0386	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.830	JB	0.0323	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.601	JB	0.0252	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.891	JB	0.0297	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0369	JB	0.0203	MDL	1.08	PQL	ng/Kg	U	B

Sample ID: SL-095-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.635	JB	0.0446	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.556	JB	0.0459	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.599	JB	0.0358	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.15	JB	0.0488	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.463	JB	0.0350	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.64	JB	0.0467	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.768	JB	0.0326	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.417	JB	0.0497	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.499	JBQ	0.0447	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.551	JB	0.0348	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.860	JB	0.0412	MDL	5.31	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 **Laboratory:** LL

EDD Filename: DX095_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-095-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0720	JBQ	0.0289	MDL	1.06	PQL	ng/Kg	U	B

Sample ID: SL-097-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.753	JB	0.0531	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.782	JB	0.0614	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.05	JB	0.0557	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.77	JB	0.0623	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.538	JB	0.0549	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.20	JB	0.0622	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.12	JB	0.0597	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.398	JBQ	0.0634	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.862	JB	0.0539	MDL	5.59	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.597	JB	0.0519	MDL	5.59	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.882	JB	0.0515	MDL	5.59	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0808	JBQ	0.0315	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.339	JBQ	0.103	MDL	1.12	PQL	ng/Kg	J	Z

Sample ID: SL-098-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	5.40	JB	0.0960	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.03	JB	0.0678	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.71	JB	0.0591	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.00	JB	0.0570	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.75	JB	0.0600	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.45	JB	0.0548	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.48	JB	0.0469	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.59	JB	0.0583	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.09	JB	0.0454	MDL	5.55	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.266	JBQ	0.0244	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.527	JB	0.0915	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	12600	EB	0.189	MDL	11.1	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 **Laboratory:** LL

EDD Filename: DX095_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-099-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 2:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.26	JB	0.0669	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.05	JB	0.0673	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.55	JB	0.0481	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.37	JB	0.0466	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.31	JB	0.0515	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.04	JB	0.0627	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.59	JB	0.0507	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.49	JB	0.0466	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.42	JB	0.0478	MDL	5.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.256	JBQ	0.0274	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.580	JB	0.110	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	8970	EB	0.196	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-101-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 3:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.642	JB	0.0387	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.01	JBQ	0.0473	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.30	JB	0.0407	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.96	JB	0.0506	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.18	JB	0.0400	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.37	JB	0.0483	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.06	JB	0.0394	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.03	JB	0.0566	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.56	JB	0.0516	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.941	JB	0.0364	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.53	JB	0.0478	MDL	5.29	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.208	JBQ	0.0309	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.815	JB	0.103	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-102-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 1:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.41	JB	0.0808	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.21	JB	0.0709	MDL	5.48	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 Laboratory: LL

EDD Filename: DX095_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-102-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 1:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	2.43	JB	0.0508	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.22	JB	0.0481	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.09	JB	0.0552	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.04	JB	0.0543	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.523	JB	0.0395	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.37	JB	0.0473	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.991	JB	0.0377	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.209	JB	0.0295	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.373	JB	0.0685	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	8510	EB	0.195	MDL	11.0	PQL	ng/Kg	J	*XI

Sample ID: SL-103-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.21	JB	0.0658	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.03	JB	0.0653	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.32	JB	0.0530	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.24	JB	0.0514	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.89	JB	0.0641	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.24	JB	0.0589	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.43	JB	0.0566	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.480	JB	0.0443	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.37	JB	0.0521	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.04	JB	0.0421	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.130	JB	0.0267	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.464	JBQ	0.0904	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	6190	EB	0.194	MDL	10.6	PQL	ng/Kg	J	*XI

Sample ID: SL-104-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.04	JB	0.0632	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.725	JB	0.0701	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.867	JB	0.0486	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.88	JB	0.0702	MDL	5.28	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 Laboratory: LL

EDD Filename: DX095_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-104-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.570	JB	0.0491	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.46	JB	0.0679	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.839	JB	0.0543	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.429	JB	0.0533	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.690	JB	0.0467	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.702	JB	0.0467	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.712	JB	0.0448	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0383	JB	0.0270	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.414	JB	0.115	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-110-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 3:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.600	JB	0.0681	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.702	JB	0.0717	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.643	JB	0.0465	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.22	JB	0.0734	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.426	JB	0.0455	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.14	JB	0.0728	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.14	JB	0.0484	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.560	JB	0.0599	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.355	JB	0.0429	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.606	JB	0.0428	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.812	JB	0.0419	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0819	JB	0.0314	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.264	JB	0.0901	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-111-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.02	JB	0.0621	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.929	JB	0.0626	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.06	JB	0.0448	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.575	JB	0.0417	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.86	JB	0.0625	MDL	5.53	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 Laboratory: LL

EDD Filename: DX095_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-111-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	1.25	JB	0.0467	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.443	JB	0.0465	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.337	JB	0.0339	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.658	JB	0.0456	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.523	JB	0.0316	MDL	5.53	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0543	JB	0.0228	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.213	JB	0.0679	MDL	1.11	PQL	ng/Kg	J	Z

Sample ID: SL-112-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 2:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.776	JB	0.0568	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.867	JB	0.0667	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.853	JB	0.0408	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.29	JB	0.0697	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.595	JB	0.0377	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.30	JB	0.0730	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.922	JB	0.0415	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.523	JB	0.0442	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.697	JB	0.0414	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.680	JB	0.0400	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.788	JB	0.0378	MDL	5.41	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.101	JBQ	0.0240	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.300	JBQ	0.0871	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-113-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.41	JB	0.0706	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.92	JB	0.0979	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.78	JB	0.0600	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.98	JB	0.0598	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.08	JB	0.0559	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.37	JB	0.0719	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.55	JB	0.0510	MDL	5.47	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 Laboratory: LL

EDD Filename: DX095_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-113-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	2.18	JB	0.0565	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.30	JB	0.0489	MDL	5.47	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.213	JB	0.0248	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.558	JB	0.0971	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	9240	EB	0.178	MDL	10.9	PQL	ng/Kg	J	*XI

Sample ID: SL-114-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.43	JB	0.0334	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.368	JB	0.0420	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.414	JB	0.0624	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.558	JB	0.0364	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.53	JB	0.0632	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.393	JB	0.0369	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.26	JB	0.0617	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.760	JB	0.0365	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.393	JB	0.0429	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.479	JB	0.0464	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.346	JB	0.0347	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.594	JB	0.0400	MDL	5.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.103	JBQ	0.0294	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.320	JB	0.0783	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-121-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.08	JB	0.0600	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.95	JB	0.0866	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.96	JB	0.0498	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.55	JB	0.0496	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.12	JB	0.0505	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.63	JB	0.0764	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.39	JB	0.0651	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.87	JB	0.0468	MDL	5.32	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 **Laboratory:** LL

EDD Filename: DX095_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-121-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	2.76	JB	0.0634	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.255	JB	0.0315	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.03	JB	0.140	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	6220	EB	0.151	MDL	10.6	PQL	ng/Kg	J	*XI

Sample ID: SL-125-SA5DN-SS-0.0-0.5 *Collected:* 5/31/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.13	JB	0.0615	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.54	JB	0.0546	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.07	JB	0.0462	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.736	JB	0.0433	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.86	JB	0.0544	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.28	JB	0.0483	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.773	JB	0.0572	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.868	JB	0.0431	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.876	JB	0.0465	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.995	JB	0.0388	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.105	JB	0.0286	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.403	JB	0.0815	MDL	1.08	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and CRQLs
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX095

Method Blank Outlier Report

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1540B370528	6/7/2011 5:28:00 AM	1,2,3,4,6,7,8-HPCDD	3.82 pg/L	EB10-SA5DN-SS-053111
		1,2,3,4,6,7,8-HPCDF	2.66 pg/L	EB11-SA5DN-SB-053111
		1,2,3,4,7,8,9-HPCDF	1.23 pg/L	
		1,2,3,4,7,8-HxCDD	0.888 pg/L	
		1,2,3,4,7,8-HXCDF	1.05 pg/L	
		1,2,3,6,7,8-HXCDD	0.712 pg/L	
		1,2,3,6,7,8-HXCDF	1.06 pg/L	
		1,2,3,7,8,9-HXCDD	1.50 pg/L	
		1,2,3,7,8,9-HXCDF	1.01 pg/L	
		1,2,3,7,8-PECDD	1.18 pg/L	
		1,2,3,7,8-PECDF	0.895 pg/L	
		2,3,4,6,7,8-HXCDF	1.18 pg/L	
		2,3,4,7,8-PECDF	0.981 pg/L	
		2,3,7,8-TCDD	0.343 pg/L	
		2,3,7,8-TCDF	0.368 pg/L	
		OCDD	9.88 pg/L	
		OCDF	3.74 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB10-SA5DN-SS-053111(RES)	1,2,3,4,6,7,8-HPCDD	3.37 pg/L	3.37U pg/L
EB10-SA5DN-SS-053111(RES)	1,2,3,4,6,7,8-HPCDF	2.34 pg/L	2.34U pg/L
EB10-SA5DN-SS-053111(RES)	1,2,3,4,7,8,9-HPCDF	0.949 pg/L	0.949U pg/L
EB10-SA5DN-SS-053111(RES)	1,2,3,4,7,8-HXCDF	1.14 pg/L	1.14U pg/L
EB10-SA5DN-SS-053111(RES)	1,2,3,6,7,8-HXCDF	0.974 pg/L	0.974U pg/L
EB10-SA5DN-SS-053111(RES)	1,2,3,7,8,9-HXCDD	0.729 pg/L	0.729U pg/L
EB10-SA5DN-SS-053111(RES)	1,2,3,7,8-PECDF	0.707 pg/L	0.707U pg/L
EB10-SA5DN-SS-053111(RES)	2,3,4,6,7,8-HXCDF	1.07 pg/L	1.07U pg/L
EB10-SA5DN-SS-053111(RES)	2,3,4,7,8-PECDF	0.704 pg/L	0.704U pg/L
EB10-SA5DN-SS-053111(RES)	OCDD	8.31 pg/L	8.31U pg/L
EB10-SA5DN-SS-053111(RES)	OCDF	3.04 pg/L	3.04U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,4,6,7,8-HPCDD	2.31 pg/L	2.31U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,4,6,7,8-HPCDF	1.67 pg/L	1.67U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,4,7,8,9-HPCDF	0.454 pg/L	0.454U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,4,7,8-HxCDD	0.347 pg/L	0.347U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,4,7,8-HXCDF	0.656 pg/L	0.656U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,6,7,8-HXCDD	0.346 pg/L	0.346U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,6,7,8-HXCDF	0.656 pg/L	0.656U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,7,8,9-HXCDD	0.448 pg/L	0.448U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,7,8,9-HXCDF	0.833 pg/L	0.833U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,7,8-PECDD	0.315 pg/L	0.315U pg/L
EB11-SA5DN-SB-053111(RES)	1,2,3,7,8-PECDF	0.368 pg/L	0.368U pg/L
EB11-SA5DN-SB-053111(RES)	2,3,4,6,7,8-HXCDF	0.601 pg/L	0.601U pg/L
EB11-SA5DN-SB-053111(RES)	2,3,4,7,8-PECDF	0.841 pg/L	0.841U pg/L
EB11-SA5DN-SB-053111(RES)	OCDD	6.43 pg/L	6.43U pg/L
EB11-SA5DN-SB-053111(RES)	OCDF	2.24 pg/L	2.24U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1640B370705	6/17/2011 7:05:00 AM	1,2,3,4,6,7,8-HPCDD	0.463 ng/Kg	SL-014-SA5DN-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	SL-014-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8,9-HPCDF	0.122 ng/Kg	SL-094-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0874 ng/Kg	SL-095-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0717 ng/Kg	SL-097-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0862 ng/Kg	SL-098-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0613 ng/Kg	SL-099-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.127 ng/Kg	SL-101-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.115 ng/Kg	SL-102-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0563 ng/Kg	SL-103-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0601 ng/Kg	SL-104-SA5DN-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0686 ng/Kg	SL-110-SA5DN-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0796 ng/Kg	SL-111-SA5DN-SS-0.0-0.5
		2,3,7,8-TCDD	0.0351 ng/Kg	SL-112-SA5DN-SS-0.0-0.5
		2,3,7,8-TCDF	0.0163 ng/Kg	SL-113-SA5DN-SS-0.0-0.5
		OCDD	1.18 ng/Kg	SL-114-SA5DN-SS-0.0-0.5
		OCDF	0.393 ng/Kg	SL-121-SA5DN-SS-0.0-0.5
				SL-125-SA5DN-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-014-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.723 ng/Kg	0.723U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.118 ng/Kg	0.118U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.132 ng/Kg	0.132U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0832 ng/Kg	0.0832U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0759 ng/Kg	0.0759U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0975 ng/Kg	0.0975U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0696 ng/Kg	0.0696U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0708 ng/Kg	0.0708U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0768 ng/Kg	0.0768U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.117 ng/Kg	0.117U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0223 ng/Kg	0.0223U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	OCDD	5.37 ng/Kg	5.37U ng/Kg
SL-014-SA5DN-SB-4.0-5.0(RES)	OCDF	0.385 ng/Kg	0.385U ng/Kg
SL-014-SA5DN-SB-9.0-10.0(RES)	OCDD	5.43 ng/Kg	5.43U ng/Kg
SL-094-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.376 ng/Kg	0.376U ng/Kg
SL-094-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0369 ng/Kg	0.0369U ng/Kg
SL-095-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0720 ng/Kg	0.0720U ng/Kg
SL-097-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0808 ng/Kg	0.0808U ng/Kg
SL-103-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.130 ng/Kg	0.130U ng/Kg
SL-104-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0383 ng/Kg	0.0383U ng/Kg
SL-110-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.600 ng/Kg	0.600U ng/Kg
SL-110-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0819 ng/Kg	0.0819U ng/Kg
SL-111-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0543 ng/Kg	0.0543U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-112-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.101 ng/Kg	0.101U ng/Kg
SL-114-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.368 ng/Kg	0.368U ng/Kg
SL-114-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.414 ng/Kg	0.414U ng/Kg
SL-114-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.103 ng/Kg	0.103U ng/Kg
SL-125-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.105 ng/Kg	0.105U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-014-SA5DN-SB-4.0-5.0	DUP-10-SA5DN-QC-053111			
MOISTURE	12.3	11.600000000	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-014-SA5DN-SB-4.0-5.0	DUP-10-SA5DN-QC-053111			
1,2,3,4,6,7,8-HPCDD	0.723	0.594000000	20	50.00	No Qualifiers Applied
2,3,4,6,7,8-HXCDF	0.0768	0.065800000	15	50.00	
2,3,7,8-TCDD	0.0223	0.023000000	3	50.00	
1,2,3,4,6,7,8-HPCDF	0.118	0.198000000	51	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8,9-HPCDF	0.132	0.035500000	115	50.00	
1,2,3,4,7,8-HxCDD	0.0832	5.510000000 U	200	50.00	
1,2,3,4,7,8-HXCDF	5.58 U	0.054500000	200	50.00	
1,2,3,6,7,8-HXCDD	0.102	0.022700000	127	50.00	
1,2,3,6,7,8-HXCDF	0.0759	0.026900000	95	50.00	
1,2,3,7,8,9-HXCDD	0.0975	0.049000000	66	50.00	
1,2,3,7,8,9-HXCDF	0.106	0.023300000	128	50.00	
1,2,3,7,8-PECDD	0.0696	0.019900000	111	50.00	
1,2,3,7,8-PECDF	0.0708	0.030400000	80	50.00	
2,3,4,7,8-PECDF	0.117	0.064100000	58	50.00	
OCDD	5.37	2.380000000	77	50.00	
OCDF	0.385	0.214000000	57	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB10-SA5DN-SS-053111	1,2,3,4,6,7,8-HPCDD	JBQ	3.37	10.8	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	2.34	10.8	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.949	10.8	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	1.14	10.8	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.974	10.8	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.729	10.8	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.707	10.8	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	1.07	10.8	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.704	10.8	PQL	pg/L	
	OCDD	JB	8.31	21.7	PQL	pg/L	
	OCDF	JB	3.04	21.7	PQL	pg/L	
EB11-SA5DN-SB-053111	1,2,3,4,6,7,8-HPCDD	JBQ	2.31	10.3	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	1.67	10.3	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.454	10.3	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.347	10.3	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.656	10.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.346	10.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.656	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.448	10.3	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.833	10.3	PQL	pg/L	
	1,2,3,7,8-PECDD	JB	0.315	10.3	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.368	10.3	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.601	10.3	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.841	10.3	PQL	pg/L	
	OCDD	JB	6.43	20.7	PQL	pg/L	
	OCDF	JB	2.24	20.7	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.723	5.58	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.118	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.132	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0832	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.102	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0759	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0975	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.106	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0696	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0708	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0768	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.117	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0223	1.12	PQL	ng/Kg	
	OCDD	JB	5.37	11.2	PQL	ng/Kg	
	OCDF	JB	0.385	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.57	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	1.80	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	2.83	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.88	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	1.60	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.84	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	1.73	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.86	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	2.26	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.82	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.42	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	1.45	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.58	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.449	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.343	1.15	PQL	ng/Kg	
	OCDD	JB	5.43	11.5	PQL	ng/Kg	
	OCDF	JB	5.90	11.5	PQL	ng/Kg	
SL-094-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.64	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.376	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.469	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.661	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.25	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.422	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.60	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.01	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.411	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.830	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.601	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.891	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0369	1.08	PQL	ng/Kg	
SL-095-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.635	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.556	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.599	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.15	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.463	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.64	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.768	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.417	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.499	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.551	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.860	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0720	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-097-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.753	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.782	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.05	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.77	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.538	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.20	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.12	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.398	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.862	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.597	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.882	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0808	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.339	1.12	PQL	ng/Kg	
SL-098-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	5.40	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.03	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.71	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.00	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.75	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.45	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.48	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.59	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.09	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.266	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.527	1.11	PQL	ng/Kg	
SL-099-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.26	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.05	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.55	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.37	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.31	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.04	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.59	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.49	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.42	5.11	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.256	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.580	1.02	PQL	ng/Kg	
SL-101-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.642	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	1.01	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.30	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.96	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.18	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.37	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.06	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.03	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.56	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.941	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.53	5.29	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.208	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.815	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-102-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.41	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.21	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.43	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.22	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.09	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.04	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.523	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.37	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.991	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.209	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.373	1.10	PQL	ng/Kg	
SL-103-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.21	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.03	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.32	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.24	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.89	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.24	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.43	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.480	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.37	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.04	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.130	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.464	1.06	PQL	ng/Kg	
SL-104-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.04	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.725	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.867	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.88	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.570	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.46	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.839	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.429	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.690	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.702	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.712	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0383	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.414	1.06	PQL	ng/Kg	
SL-110-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.600	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.702	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.643	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.22	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.426	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.14	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.14	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.560	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.355	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.606	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.812	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0819	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.264	1.09	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-111-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.02	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.929	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.06	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.575	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.86	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.25	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.443	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.337	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.658	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.523	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0543	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.213	1.11	PQL	ng/Kg	
SL-112-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.776	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.867	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.853	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.29	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.595	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.30	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.922	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.523	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.697	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.680	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.788	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.101	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.300	1.08	PQL	ng/Kg	
SL-113-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.41	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.92	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.78	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.98	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.08	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.37	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.55	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.18	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.30	5.47	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.213	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.558	1.09	PQL	ng/Kg	
SL-114-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.43	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.368	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.414	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.558	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.53	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.393	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.26	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.760	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.393	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.479	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.346	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.594	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.103	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.320	1.04	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX095 **Laboratory: LL**

EDD Filename: DX095_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-121-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.08	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.95	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.96	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.55	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.12	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.63	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	2.39	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.87	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.76	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.255	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	1.03	1.06	PQL	ng/Kg	
SL-125-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.13	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.54	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.07	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.736	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.86	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.28	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.773	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.868	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.876	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.995	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.105	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.403	1.08	PQL	ng/Kg	

LDC #: 26258E

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

Reviewer: CR

2nd Reviewer: LA

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?

Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		SL-098-SA5DN-SS0.0-0.5	OCDD > cal range		J/P
		SL-099-SA5DN-SS0.0-0.5			
		SL-102-SA5DN-SS-0.0-0.5			
		SL-103-SA5DN-SS-90-0.5			
		SL-113-SA5DN-SS0.0-0.5			
		SL-121-SA5DN-SS-0.0-0.5			

SAMPLE DELIVERY GROUP

DX096

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
1-June-2011	SL-128-SA5DN-SS-0.0-0.5	6304883	N	METHOD	1613B	III
1-June-2011	SL-105-SA5DN-SS-0.0-0.5	6304872	N	METHOD	1613B	III
1-June-2011	SL-106-SA5DN-SS-0.0-0.5	6304873	N	METHOD	1613B	III
1-June-2011	SL-107-SA5DN-SS-0.0-0.5	6304874	N	METHOD	1613B	III
1-June-2011	SL-108-SA5DN-SS-0.0-0.5	6304875	N	METHOD	1613B	III
1-June-2011	SL-108-SA5DN-SS-0.0-0.5MS	6304876	MS	METHOD	1613B	III
1-June-2011	SL-108-SA5DN-SS-0.0-0.5MSD	6304877	MSD	METHOD	1613B	III
1-June-2011	SL-109-SA5DN-SS-0.0-0.5	6304878	N	METHOD	1613B	III
1-June-2011	SL-123-SA5DN-SS-0.0-0.5	6304879	N	METHOD	1613B	III
1-June-2011	SL-124-SA5DN-SS-0.0-0.5	6304880	N	METHOD	1613B	III
1-June-2011	SL-100-SA5DN-SS-0.0-0.5	6304871	N	METHOD	1613B	III
1-June-2011	SL-127-SA5DN-SS-0.0-0.5	6304882	N	METHOD	1613B	III
1-June-2011	SL-018-SA5DN-SB-7.5-8.5	6304893	N	METHOD	1613B	III
1-June-2011	SL-129-SA5DN-SS-0.0-0.5	6304884	N	METHOD	1613B	III
1-June-2011	SL-130-SA5DN-SS-0.0-0.5	6304885	N	METHOD	1613B	III
1-June-2011	SL-148-SA5DN-SS-0.0-0.5	6304886	N	METHOD	1613B	III
1-June-2011	DUP-11-SA5DN-QC-060111	6304887	FD	METHOD	1613B	III
1-June-2011	SL-015-SA5DN-SB-4.0-5.0	6304888	N	METHOD	1613B	III
1-June-2011	SL-015-SA5DN-SB-12.0-13.0	6304889	N	METHOD	1613B	III
1-June-2011	SL-017-SA5DN-SB-4.0-5.0	6304890	N	METHOD	1613B	III
1-June-2011	SL-017-SA5DN-SB-7.0-8.0	6304891	N	METHOD	1613B	III
1-June-2011	SL-018-SA5DN-SB-4.0-5.0	6304892	N	METHOD	1613B	III
1-June-2011	SL-126-SA5DN-SS-0.0-0.5	6304881	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX096 Laboratory: LL

EDD Filename: DX096_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP-11-SA5DN-QC-060111 *Collected:* 6/1/2011 2:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.39	JB	0.0808	MDL	5.28	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.859	JB	0.0894	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.872	JB	0.0731	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.09	JB	0.0954	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.564	JB	0.0699	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.11	JB	0.0887	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.773	JB	0.0731	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.457	JBQ	0.0641	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.989	JBQ	0.0769	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.665	JB	0.0708	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.478	JBQ	0.0711	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0744	JB	0.0323	MDL	1.06	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.344	JQ	0.172	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-015-SA5DN-SB-12.0-13.0 *Collected:* 6/1/2011 3:54:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.449	JB	0.0410	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0745	JB	0.0212	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0485	JBQ	0.0435	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0233	JBQ	0.0201	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0308	JB	0.0180	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0607	JB	0.0209	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0175	JBQ	0.0136	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0791	JBQ	0.0204	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0570	JBQ	0.0175	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0372	JBQ	0.0250	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0406	JBQ	0.0148	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0243	JBQ	0.0135	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0825	JBQ	0.0166	MDL	5.43	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0224	JBQ	0.0179	MDL	1.09	PQL	ng/Kg	U	B
OCDD	3.71	JB	0.0525	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.198	JBQ	0.0640	MDL	10.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory:** LL

EDD Filename: DX096_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-015-SA5DN-SB-4.0-5.0 *Collected:* 6/1/2011 3:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.39	JB	0.0477	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.284	JB	0.0214	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0700	JBQ	0.0437	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.103	JBQ	0.0366	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.182	JB	0.0282	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.297	JBQ	0.0374	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.116	JBQ	0.0218	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.340	JBQ	0.0367	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.377	JBQ	0.0292	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.179	JBQ	0.0229	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.187	JB	0.0151	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0799	JB	0.0233	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.219	JB	0.0164	MDL	5.56	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0363	JBQ	0.0159	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0689	JQ	0.0207	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	0.681	JB	0.0589	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-017-SA5DN-SB-4.0-5.0 *Collected:* 6/1/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.481	JBQ	0.0427	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0449	JB	0.0103	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0314	JBQ	0.0240	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0520	JBQ	0.0150	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0407	JBQ	0.0230	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0360	JBQ	0.0178	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0284	JBQ	0.0109	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0225	JB	0.0128	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0802	JBQ	0.0118	MDL	5.63	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0227	JQ	0.0201	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	1.64	JB	0.0501	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.189	JBQ	0.0694	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory:** LL

EDD Filename: DX096_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-017-SA5DN-SB-7.0-8.0 *Collected:* 6/1/2011 12:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.569	JB	0.0370	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.109	JB	0.0109	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0967	JBQ	0.0214	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0850	JB	0.0249	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0673	JB	0.0131	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.101	JB	0.0254	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0802	JB	0.0113	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.165	JB	0.0242	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0932	JBQ	0.0149	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0754	JB	0.0164	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0604	JBQ	0.00569	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0806	JB	0.0121	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0865	JB	0.00614	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0333	JBQ	0.0125	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0113	JQ	0.00956	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	1.38	JB	0.0306	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.302	JBQ	0.0410	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-018-SA5DN-SB-4.0-5.0 *Collected:* 6/1/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.586	JB	0.0297	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.145	JBQ	0.00809	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.110	JB	0.0163	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.139	JB	0.0172	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.171	JB	0.0169	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.139	JBQ	0.0180	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.140	JB	0.0139	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.167	JB	0.0174	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.154	JB	0.0186	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.133	JBQ	0.0150	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.116	JB	0.00798	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.129	JB	0.0151	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.159	JB	0.00865	MDL	5.38	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX096 Laboratory: LL

EDD Filename: DX096_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-018-SA5DN-SB-4.0-5.0 *Collected:* 6/1/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0282	JBQ	0.0153	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0366	JQ	0.0129	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	4.78	JB	0.0355	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.310	JBQ	0.0314	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-018-SA5DN-SB-7.5-8.5 *Collected:* 6/1/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.11	JB	0.0336	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.482	JB	0.0103	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.365	JBQ	0.0195	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.330	JBQ	0.0241	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.353	JB	0.0264	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.364	JBQ	0.0254	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.296	JBQ	0.0218	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.406	JB	0.0248	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.356	JB	0.0272	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.297	JB	0.0165	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.279	JB	0.0107	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.323	JB	0.0222	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.297	JB	0.0106	MDL	5.50	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0334	JBQ	0.0135	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0433	JQ	0.0143	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	6.48	JB	0.0284	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	1.11	JB	0.0384	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-100-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 3:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.547	JB	0.0193	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.595	JB	0.0164	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.577	JB	0.0131	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.96	JB	0.0175	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.337	JB	0.0119	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.85	JB	0.0166	MDL	5.17	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory:** LL

EDD Filename: DX096_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-100-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 3:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.966	JB	0.0142	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.364	J	0.0153	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.405	JB	0.0138	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.492	JB	0.0133	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.512	JB	0.0135	MDL	5.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0569	J	0.00840	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.241	J	0.0261	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-105-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 1:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.75	JB	0.0888	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.46	JB	0.0752	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.92	JB	0.0674	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.845	JB	0.0644	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.34	JB	0.0745	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.983	JB	0.0667	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.781	JB	0.0585	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.06	JB	0.0635	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.21	JB	0.0662	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.01	JB	0.0606	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0756	JBQ	0.0211	MDL	1.06	PQL	ng/Kg	U	B

Sample ID: SL-106-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.845	JB	0.0691	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.828	JBQ	0.0740	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.884	JB	0.0661	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.84	JB	0.0751	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.587	JB	0.0596	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.91	JB	0.0708	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.06	JB	0.0730	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.521	JB	0.0501	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.995	JB	0.0476	MDL	5.27	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory:** LL

EDD Filename: DX096_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-106-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.677	JB	0.0636	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.698	JB	0.0474	MDL	5.27	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.134	JB	0.0221	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.250	J	0.0936	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-107-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 2:10:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.836	JB	0.0559	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.902	JB	0.0565	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.807	JBQ	0.0498	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.52	JB	0.0592	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.649	JB	0.0444	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.79	JB	0.0561	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.854	JB	0.0498	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.612	JBQ	0.0387	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.802	JB	0.0349	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.704	JB	0.0462	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.767	JB	0.0346	MDL	5.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0355	JBQ	0.0159	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.237	JQ	0.0732	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-108-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.827	JB	0.0824	MDL	5.25	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.761	JB	0.0842	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.802	JB	0.0668	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.62	JB	0.0869	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.475	JB	0.0633	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.11	JB	0.0837	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.646	JB	0.0681	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.390	JB	0.0576	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.05	JB	0.0648	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.586	JB	0.0662	MDL	5.25	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory:** LL

EDD Filename: DX096_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-108-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.722	JB	0.0634	MDL	5.25	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0444	JBQ	0.0242	MDL	1.05	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.360	J	0.135	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-109-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 3:10:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.85	JB	0.0598	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.897	JB	0.0892	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.28	JB	0.0699	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.99	JB	0.0938	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.676	JB	0.0676	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.25	JB	0.0906	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.27	JB	0.0680	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.463	JB	0.0546	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.03	JB	0.0514	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.943	JB	0.0655	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.905	JB	0.0478	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0724	JB	0.0205	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.364	J	0.107	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-123-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.11	JB	0.0593	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.46	JB	0.0623	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.943	JB	0.0485	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.83	JB	0.0643	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.706	JB	0.0447	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.41	JB	0.0629	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.968	JB	0.0509	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.990	JB	0.0550	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.21	JB	0.0403	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.872	JB	0.0452	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.872	JB	0.0390	MDL	5.24	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX096 Laboratory: LL

EDD Filename: DX096_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-123-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.163	JBQ	0.0165	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.505	J	0.0865	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-124-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3360	EB	0.610	MDL	5.37	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	2.85	JB	0.161	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.61	JB	0.0694	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.17	JB	0.0676	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.567	JBQ	0.0375	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	37100	EB	0.514	MDL	10.7	PQL	ng/Kg	J	*XI

Sample ID: SL-126-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.76	JB	0.131	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.53	JB	0.0857	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.14	JB	0.0784	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.13	JB	0.0856	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.25	JB	0.108	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.61	JB	0.0702	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.13	JB	0.0802	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.05	JB	0.0710	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.178	JB	0.0240	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.958	J	0.144	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	11200	EB	0.281	MDL	10.7	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory:** LL

EDD Filename: DX096_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-127-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.782	JB	0.0657	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.28	JB	0.101	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.09	JB	0.0561	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.611	JB	0.0551	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.444	JB	0.0601	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.85	JB	0.0701	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.921	JB	0.0721	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.777	JB	0.0533	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.01	JB	0.0678	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.152	JB	0.0232	MDL	0.991	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.651	J	0.118	MDL	0.991	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.65	JB	0.0356	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.219	JBQ	0.0419	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.226	JB	0.0520	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.475	JB	0.0401	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.945	JB	0.0542	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.263	JB	0.0393	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.717	JB	0.0518	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.301	JB	0.0428	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.168	JBQ	0.0246	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.24	JB	0.0361	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.159	JB	0.0382	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.597	JB	0.0334	MDL	5.54	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0259	JBQ	0.0155	MDL	1.11	PQL	ng/Kg	U	B
OCDF	8.03	JB	0.0441	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-129-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.94	JB	0.106	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.59	JB	0.102	MDL	5.20	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory:** LL

EDD Filename: DX096_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-129-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	2.42	JB	0.100	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.35	JB	0.0853	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.571	JB	0.107	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.25	JB	0.120	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.61	JB	0.0683	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.83	JB	0.0921	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.23	JB	0.0718	MDL	5.20	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.133	JBQ	0.0321	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-130-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 8:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5270	EB	0.850	MDL	5.13	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	5.05	JB	0.124	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.23	JB	0.0589	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.57	JB	0.0578	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.809	J	0.0921	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	180000	EB	1.32	MDL	10.3	PQL	ng/Kg	J	*XI

Sample ID: SL-148-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 3:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.70	JB	0.0236	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.280	JB	0.0337	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.373	JB	0.0569	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.470	JB	0.0345	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.40	JB	0.0601	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.267	JBQ	0.0321	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.42	JB	0.0587	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.936	JB	0.0388	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.305	JB	0.0344	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.447	JB	0.0277	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.272	JBQ	0.0322	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.579	JB	0.0268	MDL	5.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0239	JB	0.0122	MDL	1.02	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory:** LL

EDD Filename: DX096_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-148-SA5DN-SS-0.0-0.5 *Collected:* 6/1/2011 3:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.345	J	0.0557	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	7.55	JB	0.0381	MDL	10.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and Reported CRQLs
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX096

Method Blank Outlier Report

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1590B371300	6/10/2011 1:00:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.182 ng/Kg 0.118 ng/Kg 0.0736 ng/Kg 0.0419 ng/Kg 0.0475 ng/Kg 0.0307 ng/Kg 0.0493 ng/Kg 0.0427 ng/Kg 0.0885 ng/Kg 0.0269 ng/Kg 0.0739 ng/Kg 0.0558 ng/Kg 0.425 ng/Kg 0.342 ng/Kg	SL-100-SA5DN-SS-0.0-0.5
BLK1650B370023	6/24/2011 12:23:00 AM	2,3,7,8-TCDF	0.0824 ng/Kg	DUP-11-SA5DN-QC-060111 SL-015-SA5DN-SB-12.0-13.0 SL-015-SA5DN-SB-4.0-5.0 SL-017-SA5DN-SB-4.0-5.0 SL-017-SA5DN-SB-7.0-8.0 SL-018-SA5DN-SB-4.0-5.0 SL-018-SA5DN-SB-7.5-8.5 SL-105-SA5DN-SS-0.0-0.5 SL-106-SA5DN-SS-0.0-0.5 SL-107-SA5DN-SS-0.0-0.5 SL-108-SA5DN-SS-0.0-0.5 SL-109-SA5DN-SS-0.0-0.5 SL-123-SA5DN-SS-0.0-0.5 SL-124-SA5DN-SS-0.0-0.5 SL-126-SA5DN-SS-0.0-0.5 SL-127-SA5DN-SS-0.0-0.5 SL-128-SA5DN-SS-0.0-0.5 SL-129-SA5DN-SS-0.0-0.5 SL-130-SA5DN-SS-0.0-0.5 SL-148-SA5DN-SS-0.0-0.5
BLK1650B371448	6/17/2011 2:48:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.494 ng/Kg 0.0768 ng/Kg 0.0681 ng/Kg 0.0356 ng/Kg 0.0514 ng/Kg 0.0385 ng/Kg 0.0532 ng/Kg 0.0463 ng/Kg 0.0598 ng/Kg 0.0420 ng/Kg 0.0242 ng/Kg 0.0470 ng/Kg 0.0677 ng/Kg 0.0224 ng/Kg 1.06 ng/Kg 0.269 ng/Kg	DUP-11-SA5DN-QC-060111 SL-015-SA5DN-SB-12.0-13.0 SL-015-SA5DN-SB-4.0-5.0 SL-017-SA5DN-SB-4.0-5.0 SL-017-SA5DN-SB-7.0-8.0 SL-018-SA5DN-SB-4.0-5.0 SL-018-SA5DN-SB-7.5-8.5 SL-105-SA5DN-SS-0.0-0.5 SL-106-SA5DN-SS-0.0-0.5 SL-107-SA5DN-SS-0.0-0.5 SL-108-SA5DN-SS-0.0-0.5 SL-109-SA5DN-SS-0.0-0.5 SL-123-SA5DN-SS-0.0-0.5 SL-124-SA5DN-SS-0.0-0.5 SL-126-SA5DN-SS-0.0-0.5 SL-127-SA5DN-SS-0.0-0.5 SL-128-SA5DN-SS-0.0-0.5 SL-129-SA5DN-SS-0.0-0.5 SL-130-SA5DN-SS-0.0-0.5 SL-148-SA5DN-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-11-SA5DN-QC-060111(RES)	2,3,7,8-TCDD	0.0744 ng/Kg	0.0744U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,6,7,8-HPCDD	0.449 ng/Kg	0.449U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0745 ng/Kg	0.0745U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,7,8-HxCDD	0.0233 ng/Kg	0.0233U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,7,8-HXCDF	0.0308 ng/Kg	0.0308U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,6,7,8-HXCDD	0.0607 ng/Kg	0.0607U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,6,7,8-HXCDF	0.0175 ng/Kg	0.0175U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,7,8,9-HXCDD	0.0791 ng/Kg	0.0791U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,7,8,9-HXCDF	0.0570 ng/Kg	0.0570U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,7,8-PECDD	0.0372 ng/Kg	0.0372U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	1,2,3,7,8-PECDF	0.0406 ng/Kg	0.0406U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	2,3,4,6,7,8-HXCDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	2,3,4,7,8-PECDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	2,3,7,8-TCDD	0.0224 ng/Kg	0.0224U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	OCDD	3.71 ng/Kg	3.71U ng/Kg
SL-015-SA5DN-SB-12.0-13.0(RES)	OCDF	0.198 ng/Kg	0.198U ng/Kg
SL-015-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.284 ng/Kg	0.284U ng/Kg
SL-015-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0700 ng/Kg	0.0700U ng/Kg
SL-015-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
SL-015-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.182 ng/Kg	0.182U ng/Kg
SL-015-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-015-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.179 ng/Kg	0.179U ng/Kg
SL-015-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0799 ng/Kg	0.0799U ng/Kg
SL-015-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.219 ng/Kg	0.219U ng/Kg
SL-015-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0363 ng/Kg	0.0363U ng/Kg
SL-015-SA5DN-SB-4.0-5.0(RES)	OCDF	0.681 ng/Kg	0.681U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.481 ng/Kg	0.481U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0449 ng/Kg	0.0449U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0314 ng/Kg	0.0314U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0520 ng/Kg	0.0520U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0407 ng/Kg	0.0407U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0360 ng/Kg	0.0360U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0284 ng/Kg	0.0284U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0802 ng/Kg	0.0802U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	OCDD	1.64 ng/Kg	1.64U ng/Kg
SL-017-SA5DN-SB-4.0-5.0(RES)	OCDF	0.189 ng/Kg	0.189U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.569 ng/Kg	0.569U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.109 ng/Kg	0.109U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0967 ng/Kg	0.0967U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.0850 ng/Kg	0.0850U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.101 ng/Kg	0.101U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.0802 ng/Kg	0.0802U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.165 ng/Kg	0.165U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0932 ng/Kg	0.0932U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8-PECDD	0.0754 ng/Kg	0.0754U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0604 ng/Kg	0.0604U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0806 ng/Kg	0.0806U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0865 ng/Kg	0.0865U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	2,3,7,8-TCDD	0.0333 ng/Kg	0.0333U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	OCDD	1.38 ng/Kg	1.38U ng/Kg
SL-017-SA5DN-SB-7.0-8.0(RES)	OCDF	0.302 ng/Kg	0.302U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.586 ng/Kg	0.586U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.110 ng/Kg	0.110U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.139 ng/Kg	0.139U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.171 ng/Kg	0.171U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.139 ng/Kg	0.139U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.167 ng/Kg	0.167U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.154 ng/Kg	0.154U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.133 ng/Kg	0.133U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.116 ng/Kg	0.116U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.159 ng/Kg	0.159U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0282 ng/Kg	0.0282U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	OCDD	4.78 ng/Kg	4.78U ng/Kg
SL-018-SA5DN-SB-4.0-5.0(RES)	OCDF	0.310 ng/Kg	0.310U ng/Kg
SL-018-SA5DN-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	1.11 ng/Kg	1.11U ng/Kg
SL-018-SA5DN-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.297 ng/Kg	0.297U ng/Kg
SL-018-SA5DN-SB-7.5-8.5(RES)	2,3,7,8-TCDD	0.0334 ng/Kg	0.0334U ng/Kg
SL-018-SA5DN-SB-7.5-8.5(RES)	OCDF	1.11 ng/Kg	1.11U ng/Kg
SL-105-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0756 ng/Kg	0.0756U ng/Kg
SL-107-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-108-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0444 ng/Kg	0.0444U ng/Kg
SL-109-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0724 ng/Kg	0.0724U ng/Kg
SL-128-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.219 ng/Kg	0.219U ng/Kg
SL-128-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.263 ng/Kg	0.263U ng/Kg
SL-128-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.168 ng/Kg	0.168U ng/Kg
SL-128-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.159 ng/Kg	0.159U ng/Kg
SL-128-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0259 ng/Kg	0.0259U ng/Kg
SL-148-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.280 ng/Kg	0.280U ng/Kg
SL-148-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0239 ng/Kg	0.0239U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-108-SA5DN-SS-0.0-0.5	DUP-11-SA5DN-QC-060111			
MOISTURE	5.3	5.5	4		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-108-SA5DN-SS-0.0-0.5	DUP-11-SA5DN-QC-060111			
1,2,3,4,6,7,8-HPCDD	108	123	13	50.00	
1,2,3,4,6,7,8-HPCDF	9.73	10.3	6	50.00	
1,2,3,4,7,8-HxCDD	0.761	0.859	12	50.00	
1,2,3,4,7,8-HXCDF	0.802	0.872	8	50.00	
1,2,3,6,7,8-HXCDD	3.62	4.09	12	50.00	
1,2,3,6,7,8-HXCDF	0.475	0.564	17	50.00	
1,2,3,7,8,9-HXCDD	2.11	2.11	0	50.00	
1,2,3,7,8,9-HXCDF	0.646	0.773	18	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.390	0.457	16	50.00	
1,2,3,7,8-PECDF	1.05	0.989	6	50.00	
2,3,4,6,7,8-HXCDF	0.586	0.665	13	50.00	
2,3,4,7,8-PECDF	0.722	0.478	41	50.00	
2,3,7,8-TCDF	0.360	0.344	5	50.00	
OCDD	1790	1950	9	50.00	
OCDF	35.0	37.0	6	50.00	
1,2,3,4,7,8,9-HPCDF	0.827	1.39	51	50.00	J(all detects)
2,3,7,8-TCDD	0.0444	0.0744	51	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-124-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF	B	1.15	1.07	PQL	ng/Kg	
DUP-11-SA5DN-QC-060111	1,2,3,4,7,8,9-HPCDF	JB	1.39	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.859	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.872	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.09	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.564	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.11	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.773	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.457	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.989	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.665	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.478	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0744	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.344	1.06	PQL	ng/Kg	
SL-015-SA5DN-SB-12.0-13.0	1,2,3,4,6,7,8-HPCDD	JB	0.449	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0745	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0485	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0233	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0308	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0607	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0175	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0791	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0570	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0372	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0406	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0243	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0825	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0224	1.09	PQL	ng/Kg	
	OCDD	JB	3.71	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.198	10.9	PQL	ng/Kg	
SL-015-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	5.39	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.284	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0700	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.103	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.182	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.297	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.116	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.340	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.377	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.179	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.187	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0799	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.219	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0363	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0689	1.11	PQL	ng/Kg	
	OCDF	JB	0.681	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.481	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0449	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0314	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0520	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0407	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0360	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0284	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0225	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0802	5.63	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0227	1.13	PQL	ng/Kg	
	OCDD	JB	1.64	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.189	11.3	PQL	ng/Kg	
SL-017-SA5DN-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.569	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.109	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0967	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0850	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0673	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.101	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0802	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.165	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0932	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0754	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0604	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0806	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0865	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0333	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0113	1.12	PQL	ng/Kg	
	OCDD	JB	1.38	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.302	11.2	PQL	ng/Kg	
SL-018-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.586	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.145	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.110	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.139	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.171	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.139	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.140	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.167	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.154	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.133	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.116	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.129	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.159	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0282	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0366	1.08	PQL	ng/Kg	
	OCDD	JB	4.78	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.310	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-018-SA5DN-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JB	1.11	5.50	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.482	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.365	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.330	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.353	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.364	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.296	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.406	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.356	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.297	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.279	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.323	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.297	5.50	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0334	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0433	1.10	PQL	ng/Kg	
	OCDD	JB	6.48	11.0	PQL	ng/Kg	
	OCDF	JB	1.11	11.0	PQL	ng/Kg	
SL-100-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.547	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.595	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.577	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.96	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.337	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.85	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.966	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.364	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.405	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.492	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.512	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0569	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.241	1.03	PQL	ng/Kg	
SL-105-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.75	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.46	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.92	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.845	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.34	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.983	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.781	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.06	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.21	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.01	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0756	1.06	PQL	ng/Kg	
SL-106-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.845	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.828	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.884	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.84	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.587	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.91	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.06	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.521	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.995	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.677	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.698	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.134	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.250	1.05	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-107-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.836	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.902	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.807	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.52	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.649	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.79	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.854	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.612	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.802	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.704	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.767	5.16	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0355	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.237	1.03	PQL	ng/Kg	
SL-108-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.827	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.761	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.802	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.62	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.475	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.11	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.646	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.390	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.05	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.586	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.722	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0444	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.360	1.05	PQL	ng/Kg	
SL-109-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.85	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.897	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.28	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.99	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.676	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.25	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.27	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.463	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.03	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.943	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.905	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0724	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.364	1.07	PQL	ng/Kg	
SL-123-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.11	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.46	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.943	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.83	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.706	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.41	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.968	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.990	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.21	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.872	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.872	5.24	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.163	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.505	1.05	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-124-SA5DN-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	2.85	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.61	5.37	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	4.17	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.567	1.07	PQL	ng/Kg	
SL-126-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.76	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.53	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.14	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.13	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.25	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.61	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.13	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.05	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.178	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.958	1.07	PQL	ng/Kg	
SL-127-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.782	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.28	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.09	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.611	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.444	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.85	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.921	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.777	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.01	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.152	0.991	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.651	0.991	PQL	ng/Kg	
SL-128-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.65	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.219	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.226	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.475	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.945	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.263	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.717	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.301	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.168	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.24	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.159	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.597	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0259	1.11	PQL	ng/Kg	
	OCDF	JB	8.03	11.1	PQL	ng/Kg	
SL-129-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.94	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.59	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.42	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.35	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.571	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.25	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.61	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.83	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.23	5.20	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.133	1.04	PQL	ng/Kg	
SL-130-SA5DN-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	5.05	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	3.23	5.13	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	3.57	5.13	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.809	1.03	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX096 **Laboratory: LL**

EDD Filename: DX096_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-148-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.70	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.280	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.373	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.470	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.40	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.267	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.42	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.936	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.305	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.447	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.272	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.579	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0239	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.345	1.02	PQL	ng/Kg	
	OCDF	JB	7.55	10.2	PQL	ng/Kg	

LDC #: 26250F

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

Reviewer: CR

2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?

Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		SL-124-SASDN-SS-0.005	1,2,3,4,6,7,8-HPCDD	> Cal Range	J/P
		↓	OCDD		
		SL-126-SASDN-SS-0.005	OCDD		
		SL-130-SASPNSS-0.005	~~1,2,3,7,8,9-or~~ OCDD		
		↓	1,2,3,4,6,7,8-HPCDD	↓	↓

LDC #: 26250F

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: CR
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Column	Qualifications
		SL-124-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF	DB-5MS Column or	R/A

Comments: _____

SAMPLE DELIVERY GROUP

DX097

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
2-June-2011	SL-138-SA5DN-SS-0.0-0.5	6305936	N	METHOD	1613B	IV
2-June-2011	DUP-12-SA5DN-QC-060211	6305945	FD	METHOD	1613B	IV
2-June-2011	SL-138-SA5DN-SS-0.0-0.5MS	6305937	MS	METHOD	1613B	IV
2-June-2011	SL-138-SA5DN-SS-0.0-0.5MSD	6305938	MSD	METHOD	1613B	IV
2-June-2011	SL-131-SA5DN-SS-0.0-0.5	6305929	N	METHOD	1613B	IV
2-June-2011	SL-132-SA5DN-SS-0.0-0.5	6305930	N	METHOD	1613B	IV
2-June-2011	SL-133-SA5DN-SS-0.0-0.5	6305931	N	METHOD	1613B	IV
2-June-2011	SL-134-SA5DN-SS-0.0-0.5	6305932	N	METHOD	1613B	IV
2-June-2011	SL-135-SA5DN-SS-0.0-0.5	6305933	N	METHOD	1613B	IV
2-June-2011	EB12-SA5DN-SS-060211	6305950	EB	METHOD	1613B	IV
2-June-2011	SL-137-SA5DN-SS-0.0-0.5	6305935	N	METHOD	1613B	IV
2-June-2011	SL-151-SA5DN-SS-0.0-0.5	6305949	N	METHOD	1613B	IV
2-June-2011	SL-139-SA5DN-SS-0.0-0.5	6305939	N	METHOD	1613B	IV
2-June-2011	SL-140-SA5DN-SS-0.0-0.5	6305940	N	METHOD	1613B	IV
2-June-2011	SL-141-SA5DN-SS-0.0-0.5	6305941	N	METHOD	1613B	IV
2-June-2011	SL-142-SA5DN-SS-0.0-0.5	6305942	N	METHOD	1613B	IV
2-June-2011	SL-143-SA5DN-SS-0.0-0.5	6305943	N	METHOD	1613B	IV
2-June-2011	SL-144-SA5DN-SS-0.0-0.5	6305944	N	METHOD	1613B	IV
2-June-2011	SL-145-SA5DN-SS-0.0-0.5	6305946	N	METHOD	1613B	IV
2-June-2011	SL-149-SA5DN-SS-0.0-0.5	6305947	N	METHOD	1613B	IV
2-June-2011	SL-150-SA5DN-SS-0.0-0.5	6305948	N	METHOD	1613B	IV
2-June-2011	SL-136-SA5DN-SS-0.0-0.5	6305934	N	METHOD	1613B	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB12-SA5DN-SS-060211 *Collected:* 6/2/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.81	JBQ	0.302	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.09	JB	0.136	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.694	JB	0.174	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.245	JBQ	0.209	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.417	JBQ	0.165	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.589	JBQ	0.225	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.446	JB	0.164	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.504	JBQ	0.218	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.517	JB	0.178	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.443	JBQ	0.273	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.482	JBQ	0.157	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.585	JBQ	0.148	MDL	10.6	PQL	pg/L	U	B
OCDD	10.3	JB	0.304	MDL	21.1	PQL	pg/L	U	B
OCDF	1.60	JBQ	0.432	MDL	21.1	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP-12-SA5DN-QC-060211 *Collected:* 6/2/2011 9:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.51	JB	0.0259	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.390	JB	0.0412	MDL	5.12	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.544	JB	0.0526	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.389	JB	0.0309	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.19	JB	0.0550	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.317	JB	0.0277	MDL	5.12	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	1.12	JB	0.0506	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.297	JB	0.0345	MDL	5.12	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.410	JBQ	0.0242	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.364	JB	0.0136	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.301	JB	0.0296	MDL	5.12	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.310	JBQ	0.0142	MDL	5.12	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0893	JB	0.0129	MDL	1.02	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 Laboratory: LL

EDD Filename: DX097_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP-12-SA5DN-QC-060211 *Collected:* 6/2/2011 9:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.102	JBQ	0.0260	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	6.99	JB	0.0403	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-131-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.60	JB	0.0533	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.61	JB	0.0663	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.38	JB	0.0579	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.743	JB	0.0521	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.60	JB	0.0647	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.440	JB	0.0518	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.824	JB	0.0541	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.227	JBQ	0.0335	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.996	JB	0.0483	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.667	JB	0.0324	MDL	5.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0914	JBQ	0.0159	MDL	1.03	PQL	ng/Kg	U	B

Sample ID: SL-132-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.00	JB	0.0743	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.47	JB	0.0987	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.41	JB	0.0735	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.961	JB	0.0618	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.832	JB	0.0681	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.13	JB	0.0814	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.530	JB	0.0291	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.39	JB	0.0602	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.946	JB	0.0294	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.263	JB	0.0240	MDL	0.992	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.351	JB	0.0607	MDL	0.992	PQL	ng/Kg	J	Z
OCDD	14200	EB	0.268	MDL	9.92	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 Laboratory: LL

EDD Filename: DX097_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-133-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.340	JB	0.0392	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.717	JB	0.0578	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.485	JB	0.0285	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.44	JB	0.0578	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.190	JB	0.0256	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.74	JB	0.0553	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.258	JB	0.0297	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.413	JB	0.0295	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.250	JB	0.0183	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.274	JB	0.0267	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.189	JB	0.0187	MDL	5.13	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0387	JBQ	0.0136	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0390	JBQ	0.0332	MDL	1.03	PQL	ng/Kg	U	B

Sample ID: SL-134-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.396	JB	0.0372	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.926	JBQ	0.0547	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.713	JB	0.0343	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.89	JB	0.0563	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.532	JB	0.0306	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.38	JB	0.0526	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.326	JB	0.0364	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.524	JBQ	0.0409	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.402	JB	0.0274	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.03	JB	0.0324	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.26	JB	0.0261	MDL	5.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0504	JBQ	0.0129	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0691	JB	0.0380	MDL	1.03	PQL	ng/Kg	U	B

Sample ID: SL-135-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.515	JB	0.0449	MDL	5.00	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 **Laboratory:** LL

EDD Filename: DX097_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-135-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.800	JB	0.0528	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.695	JB	0.0352	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.20	JB	0.0539	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.292	JB	0.0302	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.12	JB	0.0502	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.301	JBQ	0.0299	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.440	JB	0.0318	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.130	JB	0.0166	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.356	JB	0.0272	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.332	JB	0.0168	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0382	JB	0.0113	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0706	JB	0.0290	MDL	1.00	PQL	ng/Kg	U	B

Sample ID: SL-136-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 8:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.99	JB	0.0313	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.312	JB	0.0455	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.491	JB	0.0661	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.564	JB	0.0370	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.87	JB	0.0694	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.261	JB	0.0343	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.38	JB	0.0649	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.407	JBQ	0.0380	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.399	JB	0.0242	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.481	JB	0.0199	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.289	JB	0.0358	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.396	JB	0.0200	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0723	JB	0.0137	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0924	JBQ	0.0296	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-137-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.72	JB	0.0222	MDL	5.00	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 **Laboratory:** LL

EDD Filename: DX097_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-137-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.265	JBQ	0.0313	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.375	JB	0.0353	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.525	JB	0.0306	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.976	JB	0.0372	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.301	JBQ	0.0279	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.904	JB	0.0342	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.351	JB	0.0330	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.331	JB	0.0231	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.586	JB	0.0197	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.279	JB	0.0284	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.422	JB	0.0194	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0966	JBQ	0.0133	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.172	JBQ	0.0327	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	7.87	JB	0.0330	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-138-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.55	JB	0.0219	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.230	JBQ	0.0317	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.467	JB	0.0424	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.236	JB	0.0274	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.18	JB	0.0445	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.171	JB	0.0253	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	1.16	JB	0.0423	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.129	JB	0.0291	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.307	JB	0.0251	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.231	JB	0.0131	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.166	JBQ	0.0270	MDL	5.13	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.168	JB	0.0131	MDL	5.13	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0878	JBQ	0.0128	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0662	JBQ	0.0272	MDL	1.03	PQL	ng/Kg	U	B
OCDD	592	B	0.0695	MDL	10.3	PQL	ng/Kg	J	Q
OCDF	7.72	JB	0.0383	MDL	10.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 **Laboratory:** LL

EDD Filename: DX097_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-139-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.30	JB	0.0157	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.281	JB	0.0267	MDL	4.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.235	JB	0.0363	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.226	JB	0.0310	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.762	JB	0.0378	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.181	JB	0.0270	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.852	JB	0.0359	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.481	JB	0.0331	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.205	JB	0.0267	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.234	JB	0.00992	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.188	JBQ	0.0279	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.170	JB	0.0101	MDL	4.95	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0289	JB	0.0127	MDL	0.990	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0547	JBQ	0.0190	MDL	0.990	PQL	ng/Kg	U	B
OCDF	3.22	JB	0.0303	MDL	9.90	PQL	ng/Kg	J	Z

Sample ID: SL-140-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.882	JB	0.0448	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.30	JB	0.0523	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.12	JB	0.0431	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.573	JB	0.0379	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.18	JB	0.0542	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.473	JB	0.0467	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.662	JB	0.0404	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.00	JB	0.0334	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.639	JB	0.0407	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.912	JB	0.0345	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0744	JB	0.0126	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.390	JB	0.0790	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	4330	EB	0.117	MDL	10.1	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 Laboratory: LL

EDD Filename: DX097_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-141-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 1:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.04	JB	0.0932	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.24	JB	0.0810	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.77	JB	0.0784	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.832	JB	0.0859	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.88	JB	0.107	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.79	JB	0.0667	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.41	JB	0.0810	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.32	JB	0.0670	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.212	JB	0.0321	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.811	JB	0.130	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	4790	EB	0.156	MDL	10.6	PQL	ng/Kg	J	*XI

Sample ID: SL-142-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 2:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.13	JB	0.0670	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.34	JB	0.0903	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.931	JB	0.0623	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.758	JB	0.0603	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.05	JB	0.0879	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.605	JB	0.0668	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.704	JBQ	0.0681	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.14	JB	0.0467	MDL	5.19	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.09	JB	0.0613	MDL	5.19	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.796	JB	0.0451	MDL	5.19	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0640	JBQ	0.0206	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.457	JB	0.0889	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-143-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 1:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.62	JB	0.0813	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.11	JB	0.0947	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.32	JB	0.0690	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.923	JB	0.0661	MDL	5.24	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 Laboratory: LL

EDD Filename: DX097_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-143-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 1:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	4.78	JB	0.0971	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.937	JB	0.0777	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.19	JB	0.0736	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.31	JB	0.0491	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.06	JB	0.0650	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.867	JB	0.0478	MDL	5.24	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.150	JB	0.0203	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.612	JB	0.102	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-144-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.79	JB	0.0249	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.226	JBQ	0.0396	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.248	JB	0.0496	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.266	JB	0.0379	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.11	JB	0.0507	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.241	JB	0.0343	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.23	JB	0.0488	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.895	JB	0.0395	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.278	JB	0.0314	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.388	JB	0.0200	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.199	JBQ	0.0350	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.327	JB	0.0201	MDL	5.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0507	JB	0.0148	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.125	JB	0.0328	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	4.73	JB	0.0425	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-145-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 2:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.69	JB	0.0237	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.286	JB	0.0342	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.457	JBQ	0.0508	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.296	JB	0.0346	MDL	5.00	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 **Laboratory:** LL

EDD Filename: DX097_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-145-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 2:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	1.45	JB	0.0531	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.236	JB	0.0318	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.41	JB	0.0516	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.582	JB	0.0337	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.342	JBQ	0.0317	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.353	JBQ	0.0193	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.207	JB	0.0307	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.360	JB	0.0186	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0442	JBQ	0.0128	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.144	JB	0.0393	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	8.25	JB	0.0321	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-149-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 3:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.72	JB	0.0181	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.182	JBQ	0.0361	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.243	JB	0.0393	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.279	JB	0.0381	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.09	JB	0.0405	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.223	JB	0.0314	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.40	JB	0.0401	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.32	JB	0.0447	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.247	JB	0.0390	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.569	JB	0.0250	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.210	JB	0.0346	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.394	JB	0.0272	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0443	JBQ	0.0151	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.179	JB	0.0483	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	4.70	JB	0.0453	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-150-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 3:05:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.61	JB	0.0210	MDL	5.35	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 **Laboratory:** LL

EDD Filename: DX097_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-150-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 3:05:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.294	JB	0.0327	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.355	JB	0.0423	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.610	JB	0.0394	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.49	JB	0.0443	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.384	JB	0.0349	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.54	JB	0.0429	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.02	JB	0.0409	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.332	JB	0.0390	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.688	JB	0.0281	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.324	JB	0.0355	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.564	JB	0.0286	MDL	5.35	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0512	JB	0.0143	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.387	JB	0.0543	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	8.38	JB	0.0320	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-151-SA5DN-SS-0.0-0.5 *Collected:* 6/2/2011 1:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.58	JB	0.0135	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.168	JB	0.0280	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.138	JB	0.0293	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.108	JB	0.0198	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.60	JB	0.0302	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.175	JBQ	0.0166	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.15	JB	0.0288	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.664	JB	0.0221	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.194	JBQ	0.0292	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.168	JB	0.00966	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.103	JB	0.0181	MDL	5.13	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.104	JBQ	0.0105	MDL	5.13	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0237	JBQ	0.0157	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0251	JBQ	0.0199	MDL	1.03	PQL	ng/Kg	U	B
OCDF	5.43	JB	0.0334	MDL	10.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and CRQLs
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX097

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

***Method:* 1613B**

***Matrix:* SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-138-SA5DN-SS-0.0-0.5MS SL-138-SA5DN-SS-0.0-0.5MSD (SL-138-SA5DN-SS-0.0-0.5)	OCDD	24	29	40.00-135.00	-	OCDD	J (all detects) UJ (all non-detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-138-SA5DN-SS-0.0-0.5	DUP-12-SA5DN-QC-060211			
MOISTURE	2.7	2.7	0		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-138-SA5DN-SS-0.0-0.5	DUP-12-SA5DN-QC-060211			
1,2,3,4,6,7,8-HPCDD	31.6	27.1	15	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	2.55	2.51	2	50.00	
1,2,3,4,7,8-HxCDD	0.467	0.544	15	50.00	
1,2,3,4,7,8-HXCDF	0.236	0.389	49	50.00	
1,2,3,6,7,8-HXCDD	1.18	1.19	1	50.00	
1,2,3,7,8,9-HXCDD	1.16	1.12	4	50.00	
1,2,3,7,8-PECDD	0.307	0.410	29	50.00	
1,2,3,7,8-PECDF	0.231	0.364	45	50.00	
2,3,7,8-TCDD	0.0878	0.0893	2	50.00	
2,3,7,8-TCDF	0.0662	0.102	43	50.00	
OCDD	592	512	14	50.00	
OCDF	7.72	6.99	10	50.00	
1,2,3,4,7,8,9-HPCDF	0.230	0.390	52	50.00	J(all detects)
1,2,3,6,7,8-HXCDF	0.171	0.317	60	50.00	
1,2,3,7,8,9-HXCDF	0.129	0.297	79	50.00	
2,3,4,6,7,8-HXCDF	0.166	0.301	58	50.00	
2,3,4,7,8-PECDF	0.168	0.310	59	50.00	

Method Blank Outlier Report

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1610B372350	6/14/2011 11:50:00 PM	1,2,3,4,6,7,8-HPCDD	5.46 pg/L	EB12-SA5DN-SS-060211
		1,2,3,4,6,7,8-HPCDF	1.68 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.16 pg/L	
		1,2,3,4,7,8-HxCDD	0.701 pg/L	
		1,2,3,4,7,8-HXCDF	0.730 pg/L	
		1,2,3,6,7,8-HXCDD	0.697 pg/L	
		1,2,3,6,7,8-HXCDF	0.764 pg/L	
		1,2,3,7,8,9-HXCDD	1.10 pg/L	
		1,2,3,7,8,9-HXCDF	0.850 pg/L	
		1,2,3,7,8-PECDD	0.608 pg/L	
		1,2,3,7,8-PECDF	0.737 pg/L	
		2,3,4,6,7,8-HXCDF	0.683 pg/L	
		2,3,4,7,8-PECDF	0.940 pg/L	
		2,3,7,8-TCDD	0.359 pg/L	
		OCDD	13.0 pg/L	
		OCDF	5.00 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB12-SA5DN-SS-060211(RES)	1,2,3,4,6,7,8-HPCDD	4.81 pg/L	4.81U pg/L
EB12-SA5DN-SS-060211(RES)	1,2,3,4,6,7,8-HPCDF	1.09 pg/L	1.09U pg/L
EB12-SA5DN-SS-060211(RES)	1,2,3,4,7,8,9-HPCDF	0.694 pg/L	0.694U pg/L
EB12-SA5DN-SS-060211(RES)	1,2,3,4,7,8-HxCDD	0.245 pg/L	0.245U pg/L
EB12-SA5DN-SS-060211(RES)	1,2,3,4,7,8-HXCDF	0.417 pg/L	0.417U pg/L
EB12-SA5DN-SS-060211(RES)	1,2,3,6,7,8-HXCDD	0.589 pg/L	0.589U pg/L
EB12-SA5DN-SS-060211(RES)	1,2,3,6,7,8-HXCDF	0.446 pg/L	0.446U pg/L
EB12-SA5DN-SS-060211(RES)	1,2,3,7,8,9-HXCDD	0.504 pg/L	0.504U pg/L
EB12-SA5DN-SS-060211(RES)	1,2,3,7,8,9-HXCDF	0.517 pg/L	0.517U pg/L
EB12-SA5DN-SS-060211(RES)	1,2,3,7,8-PECDD	0.443 pg/L	0.443U pg/L
EB12-SA5DN-SS-060211(RES)	2,3,4,6,7,8-HXCDF	0.482 pg/L	0.482U pg/L
EB12-SA5DN-SS-060211(RES)	2,3,4,7,8-PECDF	0.585 pg/L	0.585U pg/L
EB12-SA5DN-SS-060211(RES)	OCDD	10.3 pg/L	10.3U pg/L
EB12-SA5DN-SS-060211(RES)	OCDF	1.60 pg/L	1.60U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1670B371545	6/18/2011 3:45:00 PM	1,2,3,4,6,7,8-HPCDD	0.320 ng/Kg	DUP-12-SA5DN-QC-060211
		1,2,3,4,6,7,8-HPCDF	0.0999 ng/Kg	SL-131-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8,9-HPCDF	0.0858 ng/Kg	SL-132-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0367 ng/Kg	SL-133-SA5DN-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0404 ng/Kg	SL-134-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0364 ng/Kg	SL-135-SA5DN-SS-0.0-0.5
		1,2,3,6,7,8-HXCDF	0.0281 ng/Kg	SL-136-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDD	0.0479 ng/Kg	SL-137-SA5DN-SS-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0653 ng/Kg	SL-138-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0269 ng/Kg	SL-139-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0222 ng/Kg	SL-140-SA5DN-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0258 ng/Kg	SL-141-SA5DN-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0562 ng/Kg	SL-142-SA5DN-SS-0.0-0.5
		2,3,7,8-TCDD	0.0216 ng/Kg	SL-143-SA5DN-SS-0.0-0.5
		2,3,7,8-TCDF	0.0153 ng/Kg	SL-144-SA5DN-SS-0.0-0.5
		OCDD	1.42 ng/Kg	SL-145-SA5DN-SS-0.0-0.5
		OCDF	0.240 ng/Kg	SL-149-SA5DN-SS-0.0-0.5
				SL-150-SA5DN-SS-0.0-0.5
				SL-151-SA5DN-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-12-SA5DN-QC-060211(RES)	1,2,3,4,7,8,9-HPCDF	0.390 ng/Kg	0.390U ng/Kg
DUP-12-SA5DN-QC-060211(RES)	1,2,3,7,8,9-HXCDF	0.297 ng/Kg	0.297U ng/Kg
DUP-12-SA5DN-QC-060211(RES)	2,3,7,8-TCDD	0.0893 ng/Kg	0.0893U ng/Kg
SL-131-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0914 ng/Kg	0.0914U ng/Kg
SL-133-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.340 ng/Kg	0.340U ng/Kg
SL-133-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.258 ng/Kg	0.258U ng/Kg
SL-133-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.189 ng/Kg	0.189U ng/Kg
SL-133-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0387 ng/Kg	0.0387U ng/Kg
SL-133-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0390 ng/Kg	0.0390U ng/Kg
SL-134-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.396 ng/Kg	0.396U ng/Kg
SL-134-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.326 ng/Kg	0.326U ng/Kg
SL-134-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0504 ng/Kg	0.0504U ng/Kg
SL-134-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0691 ng/Kg	0.0691U ng/Kg
SL-135-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.301 ng/Kg	0.301U ng/Kg
SL-135-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0382 ng/Kg	0.0382U ng/Kg
SL-135-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0706 ng/Kg	0.0706U ng/Kg
SL-136-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.312 ng/Kg	0.312U ng/Kg
SL-136-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-137-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.265 ng/Kg	0.265U ng/Kg
SL-137-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0966 ng/Kg	0.0966U ng/Kg
SL-138-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-138-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-138-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.168 ng/Kg	0.168U ng/Kg
SL-138-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0878 ng/Kg	0.0878U ng/Kg
SL-138-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0662 ng/Kg	0.0662U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-139-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.281 ng/Kg	0.281U ng/Kg
SL-139-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-139-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0289 ng/Kg	0.0289U ng/Kg
SL-139-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0547 ng/Kg	0.0547U ng/Kg
SL-140-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0744 ng/Kg	0.0744U ng/Kg
SL-142-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0640 ng/Kg	0.0640U ng/Kg
SL-144-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.226 ng/Kg	0.226U ng/Kg
SL-144-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0507 ng/Kg	0.0507U ng/Kg
SL-145-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.286 ng/Kg	0.286U ng/Kg
SL-145-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0442 ng/Kg	0.0442U ng/Kg
SL-149-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.182 ng/Kg	0.182U ng/Kg
SL-149-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0443 ng/Kg	0.0443U ng/Kg
SL-150-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.294 ng/Kg	0.294U ng/Kg
SL-150-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0512 ng/Kg	0.0512U ng/Kg
SL-151-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-151-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.138 ng/Kg	0.138U ng/Kg
SL-151-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-151-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-151-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.104 ng/Kg	0.104U ng/Kg
SL-151-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0237 ng/Kg	0.0237U ng/Kg
SL-151-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0251 ng/Kg	0.0251U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB12-SA5DN-SS-060211	1,2,3,4,6,7,8-HPCDD	JBQ	4.81	10.6	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.09	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.694	10.6	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.245	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.417	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.589	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.446	10.6	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.504	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.517	10.6	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.443	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.482	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.585	10.6	PQL	pg/L	
	OCDD	JB	10.3	21.1	PQL	pg/L	
	OCDF	JBQ	1.60	21.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-12-SA5DN-QC-060211	1,2,3,4,6,7,8-HPCDF	JB	2.51	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.390	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.544	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.389	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.19	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.317	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.12	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.297	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.410	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.364	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.301	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.310	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0893	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.102	1.02	PQL	ng/Kg	
	OCDF	JB	6.99	10.2	PQL	ng/Kg	
SL-131-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.60	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.61	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.38	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.743	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.60	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.440	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.824	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.227	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.996	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.667	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0914	1.03	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.00	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.47	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.41	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.961	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.832	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.13	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.530	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.39	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.946	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.263	0.992	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.351	0.992	PQL	ng/Kg	
SL-133-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.340	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.717	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.485	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.44	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.190	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.74	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.258	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.413	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.250	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.274	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.189	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0387	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0390	1.03	PQL	ng/Kg	
SL-134-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.396	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.926	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.713	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.89	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.532	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.38	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.326	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.524	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.402	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.03	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.26	5.16	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0504	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0691	1.03	PQL	ng/Kg	
SL-135-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.515	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.800	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.695	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.20	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.292	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.12	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.301	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.440	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.130	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.356	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.332	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0382	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0706	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-136-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.99	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.312	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.491	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.564	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.87	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.261	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.38	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.407	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.399	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.481	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.289	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.396	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0723	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0924	1.00	PQL	ng/Kg	
SL-137-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.72	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.265	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.375	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.525	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.976	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.301	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.904	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.351	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.331	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.586	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.279	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.422	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0966	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.172	1.00	PQL	ng/Kg	
	OCDF	JB	7.87	10.0	PQL	ng/Kg	
SL-138-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.55	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.230	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.467	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.236	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.18	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.171	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.16	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.129	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.307	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.231	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.166	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.168	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0878	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0662	1.03	PQL	ng/Kg	
	OCDF	JB	7.72	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-139-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.30	4.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.281	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.235	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.226	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.762	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.181	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.852	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.481	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.205	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.234	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.188	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0289	0.990	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0547	0.990	PQL	ng/Kg	
	OCDF	JB	3.22	9.90	PQL	ng/Kg	
SL-140-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.882	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.30	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.12	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.573	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.18	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.473	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.662	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.00	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.639	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.912	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0744	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.390	1.01	PQL	ng/Kg	
SL-141-SA5DN-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	4.04	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.24	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.77	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.832	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.88	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	2.79	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.41	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.32	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.212	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.811	1.06	PQL	ng/Kg	
SL-142-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.13	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.34	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.931	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.758	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.05	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.605	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.704	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	1.14	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.09	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.796	5.19	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0640	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.457	1.04	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-143-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.62	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.11	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.32	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.923	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.78	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.937	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.19	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.31	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.06	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.867	5.24	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.150	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.612	1.05	PQL	ng/Kg	
SL-144-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.79	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.226	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.248	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.266	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.11	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.241	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.23	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.895	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.278	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.388	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.199	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.327	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0507	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.125	1.02	PQL	ng/Kg	
	OCDF	JB	4.73	10.2	PQL	ng/Kg	
SL-145-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.69	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.286	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.457	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.296	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.45	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.236	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.41	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.582	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.342	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.353	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.207	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.360	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0442	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.144	1.00	PQL	ng/Kg	
	OCDF	JB	8.25	10.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX097 **Laboratory: LL**

EDD Filename: DX097_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-149-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.72	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.182	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.243	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.279	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.09	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.223	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.40	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.32	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.247	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.569	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.210	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.394	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0443	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.179	1.07	PQL	ng/Kg	
	OCDF	JB	4.70	10.7	PQL	ng/Kg	
SL-150-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.61	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.294	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.355	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.610	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.49	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.384	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.54	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.02	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.332	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.688	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.324	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.564	5.35	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0512	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.387	1.07	PQL	ng/Kg	
	OCDF	JB	8.38	10.7	PQL	ng/Kg	
SL-151-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.58	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.168	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.138	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.108	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.60	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.175	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.15	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.664	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.194	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.168	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.103	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.104	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0237	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0251	1.03	PQL	ng/Kg	
	OCDF	JB	5.43	10.3	PQL	ng/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: June 2, 2011

LDC Report Date: September 26, 2011

Matrix: Soil/Water

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX097

Sample Identification

SL-131-SA5DN-SS-0.0-0.5
SL-132-SA5DN-SS-0.0-0.5
SL-133-SA5DN-SS-0.0-0.5
SL-134-SA5DN-SS-0.0-0.5
SL-135-SA5DN-SS-0.0-0.5
SL-136-SA5DN-SS-0.0-0.5
SL-137-SA5DN-SS-0.0-0.5
SL-138-SA5DN-SS-0.0-0.5
SL-139-SA5DN-SS-0.0-0.5
SL-140-SA5DN-SS-0.0-0.5
SL-141-SA5DN-SS-0.0-0.5
SL-142-SA5DN-SS-0.0-0.5
SL-143-SA5DN-SS-0.0-0.5
SL-144-SA5DN-SS-0.0-0.5
DUP-12-SA5DN-QC-060211
SL-145-SA5DN-SS-0.0-0.5
SL-149-SA5DN-SS-0.0-0.5
SL-150-SA5DN-SS-0.0-0.5
SL-151-SA5DN-SS-0.0-0.5
EB12-SA5DN-SS-060211
SL-138-SA5DN-SS-0.0-0.5MS
SL-138-SA5DN-SS-0.0-0.5MSD

Introduction

This data review covers 21 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
11161005-MB	6/11/11	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.359 pg/L 0.737 pg/L 0.940 pg/L 0.608 pg/L 0.730 pg/L 0.764 pg/L 0.683 pg/L 0.701 pg/L 0.697 pg/L 1.10 pg/L 0.850 pg/L 1.68 pg/L 5.46 pg/L 1.16 pg/L 13.0 pg/L 5.00 pg/L	All water samples in SDG DX097
11167001-MB	6/16/11	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0153 ng/Kg 0.0216 ng/Kg 0.0222 ng/Kg 0.0562 ng/Kg 0.0269 ng/Kg 0.0404 ng/Kg 0.0281 ng/Kg 0.0258 ng/Kg 0.0367 ng/Kg 0.0364 ng/Kg 0.0479 ng/Kg 0.0653 ng/Kg 0.0999 ng/Kg 0.320 ng/Kg 0.0858 ng/Kg 1.42 ng/Kg 0.240 ng/Kg	All soil samples in SDG DX097

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
EB12-SA5DN-SS-060211	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.585 pg/L 0.443 pg/L 0.417 pg/L 0.446 pg/L 0.482 pg/L 0.245 pg/L 0.589 pg/L 0.504 pg/L 0.517 pg/L 1.09 pg/L 4.81 pg/L 0.694 pg/L 10.3 pg/L 1.60 pg/L	0.585U pg/L 0.443U pg/L 0.417U pg/L 0.446U pg/L 0.482U pg/L 0.245U pg/L 0.589U pg/L 0.504U pg/L 0.517U pg/L 1.09U pg/L 4.81U pg/L 0.694U pg/L 10.3U pg/L 1.60U pg/L
SL-131-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD	0.0914 ng/Kg	0.0914U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-133-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0390 ng/Kg 0.0387 ng/Kg 0.189 ng/Kg 0.258 ng/Kg 0.340 ng/Kg	0.0390U ng/Kg 0.0387U ng/Kg 0.189U ng/Kg 0.258U ng/Kg 0.340U ng/Kg
SL-134-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0691 ng/Kg 0.0504 ng/Kg 0.326 ng/Kg 0.396 ng/Kg	0.0691U ng/Kg 0.0504U ng/Kg 0.326U ng/Kg 0.396U ng/Kg
SL-135-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8,9-HxCDF	0.0706 ng/Kg 0.0382 ng/Kg 0.301 ng/Kg	0.0706U ng/Kg 0.0382U ng/Kg 0.301U ng/Kg
SL-136-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0723 ng/Kg 0.312 ng/Kg	0.0723U ng/Kg 0.312U ng/Kg
SL-137-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0966 ng/Kg 0.265 ng/Kg	0.0966U ng/Kg 0.265U ng/Kg
SL-138-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0662 ng/Kg 0.0878 ng/Kg 0.168 ng/Kg 0.129 ng/Kg 0.230 ng/Kg	0.0662U ng/Kg 0.0878U ng/Kg 0.168U ng/Kg 0.129U ng/Kg 0.230U ng/Kg
SL-139-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,4,7,8,9-HpCDF	0.00547 ng/Kg 0.0289 ng/Kg 0.170 ng/Kg 0.281 ng/Kg	0.00547U ng/Kg 0.0289U ng/Kg 0.170U ng/Kg 0.281U ng/Kg
SL-140-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD	0.0744 ng/Kg	0.0744U ng/Kg
SL-142-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD	0.0640 ng/Kg	0.0640U ng/Kg
SL-144-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0507 ng/Kg 0.226 ng/Kg	0.0507U ng/Kg 0.226U ng/Kg
DUP-12-SA5DN-QC-060211	2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,4,7,8,9-HpCDF	0.0893 ng/Kg 0.297 ng/Kg 0.390 ng/Kg	0.0893U ng/Kg 0.297U ng/Kg 0.390U ng/Kg
SL-145-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0422 ng/Kg 0.286 ng/Kg	0.0422U ng/Kg 0.286U ng/Kg
SL-149-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0443 ng/Kg 0.182 ng/Kg	0.0443U ng/Kg 0.182U ng/Kg
SL-150-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0512 ng/Kg 0.294 ng/Kg	0.0512U ng/Kg 0.294U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-151-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF	0.0251 ng/Kg	0.0251U ng/Kg
	2,3,7,8-TCDD	0.0237 ng/Kg	0.0237U ng/Kg
	2,3,4,7,8-PeCDF	0.104 ng/Kg	0.104U ng/Kg
	1,2,3,4,7,8-HxCDF	0.108 ng/Kg	0.108U ng/Kg
	2,3,4,6,7,8-HxCDF	0.103 ng/Kg	0.103U ng/Kg
	1,2,3,4,7,8-HxCDD	0.138 ng/Kg	0.138U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.168 ng/Kg	0.168U ng/Kg

Sample EB12-SA5DN-SS-060211 was identified as an equipment blank. No polychlorinated dioxin/dibenzofuran contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB12-SA5DN-SS-060211	6/2/11	1,2,3,7,8-PeCDD	0.443 pg/L	All soil samples in SDG DX097
		1,2,3,4,7,8-HxCDD	0.245 pg/L	
		1,2,3,6,7,8-HxCDD	0.589 pg/L	
		1,2,3,7,8,9-HxCDD	0.504 pg/L	
		1,2,3,4,6,7,8-HpCDD	4.81 pg/L	
		OCDD	10.3 pg/L	
		2,3,4,7,8-PeCDF	0.585 pg/L	
		1,2,3,4,7,8-HxCDF	0.417 pg/L	
		1,2,3,6,7,8-HxCDF	0.446 pg/L	
		1,2,3,7,8,9-HxCDF	0.517 pg/L	
		2,3,4,6,7,8-HxCDF	0.482 pg/L	
		1,2,3,4,6,7,8-HpCDF	1.09 pg/L	
		1,2,3,4,7,8,9-HpCDF	0.694 pg/L	
		OCDF	1.60 pg/L	

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X for other contaminants) than the concentrations found in the associated field blanks.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within the QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
SL-138-SA5DN-SS-0.0-0.5MS/MSD (SL-138-SA5DN-SS-0.0-0.5)	OCDD	24 (40-135)	29 (40-135)	-	J (all detects) UJ (all non-detects)	A

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

All target compound identifications were within validation criteria.

XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
SL-132-SA5DN-SS-0.0-0.5 SL-140-SA5DN-SS-0.0-0.5 SL-141-SA5DN-SS-0.0-0.5	OCDD	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX097	All compounds reported below the RL.	J (all detects)	A

XII. System Performance

The system performance was acceptable.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples SL-138-SA5DN-SS-0.0-0.5 and DUP-12-SA5DN-QC-060211 were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-138-SA5DN-SS-0.0-0.5	DUP-12-SA5DN-QC-060211			
2,3,7,8-TCDF	0.0662	0.102	43 (≤50)	-	-
2,3,7,8-TCDD	0.0878	0.0893	2 (≤50)	-	-
1,2,3,7,8-PeCDF	0.231	0.364	45 (≤50)	-	-
2,3,4,7,8-PeCDF	0.168	0.310	59 (≤50)	J (all detects)	A
1,2,3,7,8-PeCDD	0.307	0.410	29 (≤50)	-	-
1,2,3,4,7,8-HxCDF	0.236	0.389	49 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.171	0.317	60 (≤50)	J (all detects)	A
2,3,4,6,7,8-HxCDF	0.166	0.301	58 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDD	0.467	0.544	15 (≤50)	-	-
1,2,3,6,7,8-HxCDD	1.18	1.19	1 (≤50)	-	-
1,2,3,7,8,9-HxCDD	1.16	1.12	4 (≤50)	-	-
1,2,3,7,8,9-HxCDF	0.129	0.297	79 (≤50)	J (all detects)	A
1,2,3,4,6,7,8-HpCDF	2.55	2.51	2 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	31.6	27.1	15 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.230	0.390	52 (≤50)	J (all detects)	A
OCDD	592	512	14 (≤50)	-	-
OCDF	7.72	6.99	10 (≤50)	-	-

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX097

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX097	SL-132-SA5DN-SS-0.0-0.5 SL-140-SA5DN-SS-0.0-0.5 SL-141-SA5DN-SS-0.0-0.5	OCDD	J (all detects)	P	Compound quantitation and RLs (*XI)
DX097	SL-131-SA5DN-SS-0.0-0.5 SL-132-SA5DN-SS-0.0-0.5 SL-133-SA5DN-SS-0.0-0.5 SL-134-SA5DN-SS-0.0-0.5 SL-135-SA5DN-SS-0.0-0.5 SL-136-SA5DN-SS-0.0-0.5 SL-137-SA5DN-SS-0.0-0.5 SL-138-SA5DN-SS-0.0-0.5 SL-139-SA5DN-SS-0.0-0.5 SL-140-SA5DN-SS-0.0-0.5 SL-141-SA5DN-SS-0.0-0.5 SL-142-SA5DN-SS-0.0-0.5 SL-143-SA5DN-SS-0.0-0.5 SL-144-SA5DN-SS-0.0-0.5 DUP-12-SA5DN-QC-060211 SL-145-SA5DN-SS-0.0-0.5 SL-149-SA5DN-SS-0.0-0.5 SL-150-SA5DN-SS-0.0-0.5 SL-151-SA5DN-SS-0.0-0.5 EB12-SA5DN-SS-060211	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX097	SL-138-SA5DN-SS-0.0-0.5 DUP-12-SA5DN-QC-060211	2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX097

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX097	EB12-SA5DN-SS-060211	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.585U pg/L 0.443U pg/L 0.417U pg/L 0.446U pg/L 0.482U pg/L 0.245U pg/L 0.589U pg/L 0.504U pg/L 0.517U pg/L 1.09U pg/L 4.81U pg/L 0.694U pg/L 10.3U pg/L 1.60U pg/L	A	B
DX097	SL-131-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD	0.0914U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX097	SL-133-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0390U ng/Kg 0.0387U ng/Kg 0.189U ng/Kg 0.258U ng/Kg 0.340U ng/Kg	A	B
DX097	SL-134-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0691U ng/Kg 0.0504U ng/Kg 0.326U ng/Kg 0.396U ng/Kg	A	B
DX097	SL-135-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8,9-HxCDF	0.0706U ng/Kg 0.0382U ng/Kg 0.301U ng/Kg	A	B
DX097	SL-136-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0723U ng/Kg 0.312U ng/Kg	A	B
DX097	SL-137-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0966U ng/Kg 0.265U ng/Kg	A	B
DX097	SL-138-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0662U ng/Kg 0.0878U ng/Kg 0.168U ng/Kg 0.129U ng/Kg 0.230U ng/Kg	A	B
DX097	SL-139-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,4,7,8,9-HpCDF	0.00547U ng/Kg 0.0289U ng/Kg 0.170U ng/Kg 0.281U ng/Kg	A	B
DX097	SL-140-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD	0.0744U ng/Kg	A	B
DX097	SL-142-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD	0.0640U ng/Kg	A	B
DX097	SL-144-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0507U ng/Kg 0.226U ng/Kg	A	B
DX097	DUP-12-SA5DN-QC-060211	2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,4,7,8,9-HpCDF	0.0893U ng/Kg 0.297U ng/Kg 0.390U ng/Kg	A	B
DX097	SL-145-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0422U ng/Kg 0.286U ng/Kg	A	B
DX097	SL-149-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0443U ng/Kg 0.182U ng/Kg	A	B
DX097	SL-150-SA5DN-SS-0.0-0.5	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0512U ng/Kg 0.294U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX097	SL-151-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8,9-HpCDF	0.0251U ng/Kg 0.0237U ng/Kg 0.104U ng/Kg 0.108U ng/Kg 0.103U ng/Kg 0.138U ng/Kg 0.168U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX097

No Sample Data Qualified in this SDG

LDC #: 26250G21 (G)

VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 9/26/11

SDG #: DX097

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: FJ

2nd Reviewer: ✓

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6/2/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	%D ≤ 20/35
IV.	Routine calibration/ICV	A	QC limit
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	SW	
VII.	Laboratory control samples	A	~~LCS~~ OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	QC limit
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	SW	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 8, 15
XV.	Field blanks	SW	EB = 20

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

SOIL

29 1	1	SL-131-SA5DN-SS-0.0-0.5	11	SL-141-SA5DN-SS-0.0-0.5	21	SL-138-SA5DN-SS-0.0-0.5MS	31 1	11167001
	2	SL-132-SA5DN-SS-0.0-0.5	12	SL-142-SA5DN-SS-0.0-0.5	22	SL-138-SA5DN-SS-0.0-0.5MSD	32 2	11161005
	3	SL-133-SA5DN-SS-0.0-0.5	13	SL-143-SA5DN-SS-0.0-0.5	23		33	
	4	SL-134-SA5DN-SS-0.0-0.5	14	SL-144-SA5DN-SS-0.0-0.5	24		34	
	5	SL-135-SA5DN-SS-0.0-0.5	15	DUP-12-SA5DN-QC-060211 D	25		35	
	6	SL-136-SA5DN-SS-0.0-0.5	16	SL-145-SA5DN-SS-0.0-0.5	26		36	
	7	SL-137-SA5DN-SS-0.0-0.5	17	SL-149-SA5DN-SS-0.0-0.5	27		37	
	8 ✓	SL-138-SA5DN-SS-0.0-0.5 D	18	SL-150-SA5DN-SS-0.0-0.5	28		38	
	9	SL-139-SA5DN-SS-0.0-0.5	19	SL-151-SA5DN-SS-0.0-0.5	29		39	
	10	SL-140-SA5DN-SS-0.0-0.5	20 2	EB12-SA5DN-SS-060211 Water	30		40	

Notes: _____

LDC #: 26750621

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: [illegible]

Method: Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Was PFK exact mass 380.9760 verified?	✓			
Were the retention time windows established for all homologues?	✓			
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers ≤ 25% ?	✓			
Is the static resolving power at least 10,000 (10% valley definition)?	✓			
Was the mass resolution adequately check with PFK?	✓			
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	✓			
III. Initial calibration				
Was the initial calibration performed at 5 concentration levels?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% for unlabeled compounds and ≤ 35% for labeled compounds ?	✓			
Did all calibration standards meet the Ion Abundance Ratio criteria?	✓			
Was the signal to noise ratio for each target compound ≥ 2.5 and for each recovery and internal standard ≥ 10?	✓			
IV. Continuing calibration				
Was a routine calibration performed at the beginning and end of each 12 hour period?	✓			
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	✓			
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank performed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			✓	
Were the performance evaluation (PE) samples within the acceptance limits?			✓	
IX. Internal standards				
Were internal standard recoveries within the 25-150% criteria?	✓			
Was the minimum S/N ratio of all internal standard peaks ≥ 10?	✓			
X. Target compound identification				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within -1 to 3 sec. of the RT of the labeled standard?	✓			
For 2,3,7,8 substituted congeners without associated labeled standards, were the relative retention times of the two quantitation peaks within 0.005 time units of the RRT measured in the routine calibration?	✓			
For non-2,3,7,8 substituted congeners, were the retention times of the two quantitation peaks within RT established in the performance check solution?	✓			
Did compound spectra contain all characteristic ions listed in the table attached?	✓			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	✓			
Was the signal to noise ratio for each target compound and labeled standard ≥ 2.5?	✓			
Does the maximum intensity of each specified characteristic ion coincide within ± 2 seconds (includes labeled standards)?	✓			
For PCDF identification, was any signal (S/N ≥ 2.5, at ± seconds RT) detected in the corresponding PCDPE channel?	✓			
Was an acceptable lock mass recorded and monitored?	✓			
XI. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	✓			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XII. System performance				
System performance was found to be acceptable.	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	—			
Target compounds were detected in the field duplicates.	✓			
XV. Field blanks				
Field blanks were identified in this SDG.	✓			
Target compounds were detected in the field blanks.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method ~~8290~~ 1613B)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

LDC #: ~~26064A21~~ 26250G2 /

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
Reviewer: F2
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?
Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 6/11/11 **Blank analysis date:** 6/14/11 **Associated samples:** All **water**
Conc. units: pg/Kg L

Compound	Blank ID	Sample Identification								
	11161005-MB	5X	20							
A	0.359*	1.795								
I	0.737*	3.685								
J	0.940*	4.7	0.585*U							
B	0.608*	3.04	0.443*U							
K	0.730*	3.65	0.417*U							
L	0.764*	3.82	0.446U							
M	0.683*	3.415	0.482*U							
C	0.701*	3.505	0.245*U							
D	0.697*	3.485	0.589*U							
E	1.10	5.5	0.504*U							
N	0.850*	4.25	0.517U							
O	1.68	8.4	1.09U							
F	5.46	27.3	4.81*U							
P	1.16*	5.8	0.694U							
G	13.0	65	10.3U							
Q	5.00	25	1.60*U							

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: ~~26064A21~~ 26250G2/

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: F2
2nd Reviewer: L

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC
Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 6/16/11 **Blank analysis date:** 6/18/11 **Associated samples:** All **SOIL**

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11167001-MB	5X	1	2	3	4	5	6	7	8
H	0.0153*	0.0765			0.0390*U	0.0691U	0.0706U			0.0662*U
A	0.0216*	0.108	0.0914*U		0.0387*U	0.0504*U	0.0382U	0.0723U	0.0966*U	0.0878*U
I	0.0222*	0.111								
J	0.0562*	0.281			0.189U					0.168U
B	0.0269*	0.1345								
K	0.0404*	0.202								
L	0.0281*	0.1405								
M	0.0258*	0.129								
C	0.0367*	0.1835								
D	0.0364*	0.182								
E	0.0479	0.2395								
N	0.0653	0.3265			0.258U	0.326U	0.301*U			0.129U
O	0.0999	0.4995								
F	0.320	1.6								
P	0.0858*	0.429			0.340U	0.396U		0.312U	0.265*U	0.230*U
G	1.42	7.1								
Q	0.240*	1.2								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: ~~26064A21~~ 26250G21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC
Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 6/16/11 **Blank analysis date:** 6/18/11 **Associated samples:** All SOIL

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11167001-MB	5X	9	10	11	12	13	14	15	16
H	0.0153*	0.0765	0.0547*U							
A	0.0216*	0.108	0.0289U	0.0744U		0.0640*U		0.0507U	0.0893U	0.0422*U
I	0.0222*	0.111								
J	0.0562*	0.281	0.170U							
B	0.0269*	0.1345								
K	0.0404*	0.202								
L	0.0281*	0.1405								
M	0.0258*	0.129								
C	0.0367*	0.1835								
D	0.0364*	0.182								
E	0.0479	0.2395								
N	0.0653	0.3265							0.297U	
O	0.0999	0.4995								
F	0.320	1.6								
P	0.0858*	0.429	0.281U					0.226*U	0.390U	0.286U
G	1.42	7.1								
Q	0.240*	1.2								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: ~~26064A21~~ 26250G21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: MT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC
Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 6/16/11 **Blank analysis date:** 6/18/11 **Associated samples:** All **SOIL**

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11167001-MB	5X	17	18	19					
H	0.0153*	0.0765			0.0251*U					
A	0.0216*	0.108	0.0443*U	0.0512U	0.0237*U					
I	0.0222*	0.111								
J	0.0562*	0.281			0.104*U					
B	0.0269*	0.1345								
K	0.0404*	0.202			0.108U					
L	0.0281*	0.1405								
M	0.0258*	0.129			0.103U					
C	0.0367*	0.1835			0.138U					
D	0.0364*	0.182								
E	0.0479	0.2395								
N	0.0653	0.3265								
O	0.0999	0.4995								
F	0.320	1.6								
P	0.0858*	0.429	0.182*U	0.294U	0.168U					
G	1.42	7.1								
Q	0.240*	1.2								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: ~~26250G21~~ 26250G21

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: EJ
2nd Reviewer: L

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

Y N N/A Were field blanks identified in this SDG?
Blank units: pg/L **Associated sample units:** ng/kG
Sampling date: 6/2/11
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: ALL SOILS >5X

Compound	Blank ID	Sample Identification									
[illegible]	20	5X									
B	0.443	2.215									
C	0.245	1.225									
D	0.589	2.945									
E	0.504	2.52									
F	4.81	24.05									
G	10.3	51.5									
J	0.585	2.925									
K	0.417	2.085									
L	0.446	2.23									
N	0.517	2.585									
M	0.482	2.41									
O	1.09	5.45									
P	0.694	3.47									
Q	1.60	8									

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with compound concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 26250G21

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		21+22	9	24 (78-144) (40-135)	29 (78-144) (40-135)	( ) ( )	8	J/UJ/A (9)
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

LDC #: 26250G2 /

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [signature]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?
Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	~~Sample ID~~ compd	Finding	Associated Samples	Qualifications
		G	x'd cal Range	2, 10, 11	J/A det * XI P

Comments: See sample calculation verification worksheet for recalculations

LDC#: 26250G21 **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 1 of 1
Reviewer: FZ
2nd Reviewer: VV

METHOD: VOA (EPA Method 8260B)

Y N NA Were field duplicate pairs identified in this SDG?

Y N NA Were target analytes detected in the field duplicate pairs? * empc (FD)

Compound	Concentration (ng/kG)		RPD	
	8	15		
H	0.0662*	0.102*	43	
A	0.0878*	0.0893	2	
I	0.231	0.364	45	
J	0.168	0.310*	59	J/A Det
B	0.307	0.410*	29	
K	0.236	0.389	49	
L	0.171	0.317	60	J/A det
M	0.166*	0.301	58	J/A det
C	0.467	0.544	15	
D	1.18	1.19	1	
E	1.16	1.12	4	
N	0.129	0.297	79	J/A det
O	2.55	2.51	2	
F	31.6	27.1	15	
P	0.230*	0.390	52	J/A det
G	592	512	14	
Q	7.72	6.99	10	

V:\FIELD DUPLICATES\templates\26250G21.wpd

LDC #: 26320&21

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$ — A_x = Area of compound, A_{is} = Area of associated internal standard
average RRF = sum of the RRFs/number of standards — C_x = Concentration of compound, C_{is} = Concentration of internal standard
$\%RSD = 100 * (S/X)$ — S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported RRF (cs3 std)	Recalculated RRF (cs5 std)	Reported %RSD	Recalculated %RSD
1	ICAL 80/L	6/3/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.017	1.017	1.033	1.033	4.59	4.59
	Int: DF17280		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.186	1.186	1.186	1.186	3.56	3.56
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.995	0.995	1.001	1.001	3.43	3.43
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.077	1.077	1.101	1.101	4.02	4.02
			OCDF (^{13}C-OCDF)	0.945	0.945	0.974	0.974	3.54	3.54
2	ICAL WATER	6/3/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	0.938	0.938	0.952	0.952	3.68	3.68
	Int: DF17611		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.141	1.141	1.129	1.129	4.34	4.34
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.898	0.898	0.951	0.951	6.50	6.50
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	0.981	0.981	1.037	1.037	4.43	4.43
			OCDF (^{13}C-OCDF)	0.885	0.885	0.917	0.917	2.80	2.80
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)						
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26250G21

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV21:00	6/14/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.940	9.940	99	99
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.690	9.690	97	97
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	52.830	52.830	106	106
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	52.630	52.630	105	105
			OCDF (^{13}C-OCDD)	100	102.580	102.580	103	103
2			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDD)					
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDD)					

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26250G2/

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	conc. ~~Average RRF~~ (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %R	Recalculated %R
1	CCV 12:55	6/18/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.90	9.90	99	99
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.76	9.76	98	98
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	51.10	51.10	102	102
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	51.80	51.80	104	104
			OCDF (^{13}C-OCDF)	100.0	104.260	104.260	104	104
2	CCV 01:23	6/19/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	10.030	10.030	100	100
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.840	9.840	98	98
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	50.790	50.790	102	102
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	51.670	51.670	103	103
			OCDF (^{13}C-OCDF)	100.0	104.780	104.78	105	105
3	CCV 10:52	6/20/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.960	9.96	100	100
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.510	9.510	95	95
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	50.850	50.85	102	102
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	50.620	50.62	101	101
			OCDF (^{13}C-OCDF)	100.0	103.840	103.84	104	104

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26250G21

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSR - SR)/SA Where: SSR = Spiked sample result, SR = Sample result
SA = Spike added

RPD = I MSR - MSDR I * 2/(MSR + MSDR) MSR = Matrix spike percent recovery MSDR = Matrix spike duplicate percent recovery

MS/MSD samples: 21 + 22

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		Reported RPD	Recalculated RPD
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	----	----
2,3,7,8-TCDD	20.6	20.6	0.0878	17.5	17.0	85	85	82	82	3	3
1,2,3,7,8-PeCDD	103	103	0.307	93.6	90.1	91	91	87	87	4	4
1,2,3,4,7,8-HxCDD	103	103	0.467	93.6	91.8	91	91	89	89	2	2
1,2,3,4,7,8,9-HpCDF	103	103	0.230	94.3	92.1	92	92	89	89	2	2
OCDF	206	206	7.72	195	193	91	91	90	90	1	1

Comments: Refer to Matrix Spike/Matrix Spike Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26250G21

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: OPR16700 1

Compound	Spike Added (ng/kg)		Spiked Sample Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
2,3,7,8-TCDD	20.0	NA	16.9	NA	84	84				
1,2,3,7,8-PeCDD	100		89.2		89	89				
1,2,3,4,7,8-HxCDD	100		90.7		91	91				
1,2,3,4,7,8,9-HpCDF	100		92.4		92	92				
OCDF	200		185		93	93	NA			

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Descriptor	Accurate mass[a]	Ion ID	Elemental Composition	Analyte	Descriptor	Accurate Mass[a]	Ion ID	Elemental Composition	Analyte
1	303.9016 305.8987 315.9419 317.9389 319.8965 321.8936 331.9368 333.9338 375.8364 [354.9792]	M M+2 M M+2 M M+2 M M+2 M+2 LOCK	$C_{12}H_4{}^{35}Cl_4O$ $C_{12}H_4{}^{35}Cl_3{}^{37}C10$ $^{13}C_{12}H_4{}^{35}Cl_4O$ $^{13}C_{12}H_4{}^{35}Cl_3{}^{37}ClO$ $C_{12}H_4{}^{35}Cl_4O_2$ $C_{12}H_4{}^{35}Cl_3{}^{37}C10_2$ $^{13}C_{12}H_4{}^{35}Cl_4O_2$ $^{13}C_{12}H_4{}^{35}Cl_3{}^{37}ClO_2$ $C_{12}H_4{}^{35}Cl_5{}^{37}ClO$ C_9F_{13}	TCDF TCDF TCDF (S) TCDF (S) TCDD TCDD TCDD (S) TCDD (S) HxCDPE PFK	4	407.7818 409.7788 417.8250 419.8220 423.7767 425.7737 435.8169 437.8140 479.7165 [430.9728]	M+2 M+4 M M+2 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}H^{35}Cl_6{}^{37}ClO$ $C_{12}H^{35}Cl_5{}^{37}Cl_2O$ $^{13}C_{12}H^{35}Cl_7O$ $^{13}C_{12}H^{35}Cl_6{}^{37}ClO$ $C_{12}H^{35}Cl_6{}^{37}ClO_2$ $C_{12}H^{35}Cl_5{}^{37}Cl_2O_2$ $^{13}C_{12}H^{35}Cl_6{}^{37}ClO_2$ $^{13}C_{12}H^{35}Cl_5{}^{37}Cl_2O_2$ $C_{12}H^{35}Cl_7{}^{37}Cl_2O$ C_9F_{17}	HpCDF HpCDF HpCDF (S) HpCDF HpCDD HpCDD HpCDD (S) HpCDD (S) NCDPE PFK
2	339.8597 341.8567 351.9000 353.8970 355.8546 357.8516 367.8949 369.8919 409.7974 [354.9792]	M+2 M+4 M+2 M+4 M+2 M+4 M+2 M+4 M+2 LOCK	$C_{12}H_3{}^{35}Cl_4{}^{37}ClO$ $C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O$ $^{13}C_{12}H_3{}^{35}Cl_4{}^{37}C10$ $^{13}C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O$ $C_{12}H_3{}^{35}Cl_4{}^{37}ClO_2$ $C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O_2$ $^{13}C_{12}H_3{}^{35}Cl_4{}^{37}ClO_2$ $^{13}C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O_2$ $C_{12}H_3{}^{35}Cl_8{}^{37}ClO$ C_9F_{13}	PeCDF PeCDF PeCDF (S) PeCDF (S) PeCDD PeCDD PeCDD (S) PeCDD (S) HpCDPE PFK	5	441.7428 443.7399 457.7377 459.7348 469.7780 471.7750 513.6775 [422.9278]	M+2 M+4 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}{}^{35}Cl_7{}^{37}ClO$ $C_{12}{}^{35}Cl_6{}^{37}Cl_2O$ $C_{12}{}^{35}Cl_7{}^{37}ClO_2$ $C_{12}{}^{35}Cl_6{}^{37}Cl_2O_2$ $^{13}C_{12}{}^{35}Cl_7{}^{37}ClO_2$ $^{13}C_{12}{}^{35}Cl_6{}^{37}Cl_2O_2$ $C_{12}{}^{35}Cl_8{}^{37}Cl_2O$ $C_{10}F_{17}$	OCDF OCDF OCDD OCDD OCDD (S) OCDD (S) DCDPE PFK
3	373.8208 375.8178 383.8639 385.8610 389.8156 391.8127 401.8559 403.8529 445.7555 [430.9728]	M+2 M+4 M M+2 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}H_2{}^{35}Cl_5{}^{37}ClO$ $C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O$ $^{13}C_{12}H_2{}^{35}Cl_6O$ $^{13}C_{12}H_2{}^{35}Cl_5{}^{37}ClO$ $C_{12}H_2{}^{35}Cl_5{}^{37}ClO_2$ $C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O_2$ $^{13}C_{12}H_2{}^{35}Cl_5{}^{37}ClO_2$ $^{13}C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O_2$ $C_{12}H_2{}^{35}Cl_6{}^{37}Cl_2O$ C_9F_{17}	HxCDF HxCDF HxCDF (S) HxCDF (S) HxCDD HxCDD HxCDD (S) HxCDD (S) OCDPE PFK					

(a) The following nuclidic masses were used:

H = 1.007825	O = 15.994915
C = 12.000000	^{35}Cl = 34.968853
^{13}C = 13.003355	^{37}Cl = 36.965903
F = 18.9984	

S = internal/recovery standard

LDC #:_____
SDG #: pc cover

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FR
2nd reviewer:_____

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

RRF = Relative Response Factor (average) from the initial calibration

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

Example:

Sample I.D. #1 , OCPD :

Conc. = $\frac{(513242 + 1632181)(4000)}{(654178 + 595708)(1.067)(10.1)(0962}$

= 3014

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

SAMPLE DELIVERY GROUP

DX098

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
2-June-2011	SL-016-SA5DN-SB-12.0-13.0	6305970	N	METHOD	1613B	III
2-June-2011	SL-021-SA5DN-SB-4.0-5.0	6305971	N	METHOD	1613B	III
2-June-2011	SL-021-SA5DN-SB-19.5-20.5	6305972	N	METHOD	1613B	III
2-June-2011	SL-016-SA5DN-SB-4.0-5.0	6305969	N	METHOD	1613B	III
3-June-2011	SL-158-SA5DN-SS-0.0-0.5	6306866	N	METHOD	1613B	III
3-June-2011	EB14-SA5DN-SB-060311	6306873	EB	METHOD	1613B	III
3-June-2011	EB13-SA5DN-SS-060311	6306874	EB	METHOD	1613B	III
3-June-2011	SL-155-SA5DN-SS-0.0-0.5MS	6306862	MS	METHOD	1613B	III
3-June-2011	SL-155-SA5DN-SS-0.0-0.5MSD	6306863	MSD	METHOD	1613B	III
3-June-2011	SL-152-SA5DN-SS-0.0-0.5	6306858	N	METHOD	1613B	III
3-June-2011	SL-153-SA5DN-SS-0.0-0.5	6306859	N	METHOD	1613B	III
3-June-2011	SL-154-SA5DN-SS-0.0-0.5	6306860	N	METHOD	1613B	III
3-June-2011	SL-155-SA5DN-SS-0.0-0.5	6306861	N	METHOD	1613B	III
3-June-2011	SL-157-SA5DN-SS-0.0-0.5	6306865	N	METHOD	1613B	III
3-June-2011	SL-052-SA5DN-SB-9.0-10.0	6306880	N	METHOD	1613B	III
3-June-2011	SL-159-SA5DN-SS-0.0-0.5	6306867	N	METHOD	1613B	III
3-June-2011	SL-160-SA5DN-SS-0.0-0.5	6306868	N	METHOD	1613B	III
3-June-2011	SL-162-SA5DN-SS-0.0-0.5	6306869	N	METHOD	1613B	III
3-June-2011	SL-166-SA5DN-SS-0.0-0.5	6306870	N	METHOD	1613B	III
3-June-2011	SL-207-SA5DN-SS-0.0-0.5	6306871	N	METHOD	1613B	III
3-June-2011	DUP-13-SA5DN-QC-060311	6306872	N	METHOD	1613B	III
3-June-2011	SL-019-SA5DN-SB-4.0-5.0	6306875	N	METHOD	1613B	III
3-June-2011	SL-019-SA5DN-SB-9.0-10.0	6306876	N	METHOD	1613B	III
3-June-2011	SL-027-SA5DN-SB-4.0-5.0	6306877	N	METHOD	1613B	III
3-June-2011	SL-027-SA5DN-SB-14.0-15.0	6306878	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
3-June-2011	SL-052-SA5DN-SB-4.0-5.0	6306879	N	METHOD	1613B	III
3-June-2011	SL-156-SA5DN-SS-0.0-0.5	6306864	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB13-SA5DN-SS-060311 *Collected:* 6/3/2011 1:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.91	JBQ	0.302	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.801	JBQ	0.107	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.250	JB	0.128	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.207	JBQ	0.206	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.399	JBQ	0.184	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.471	JB	0.217	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.391	JB	0.172	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.380	JBQ	0.207	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.324	JBQ	0.184	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.312	JBQ	0.158	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.344	JBQ	0.156	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.551	JBQ	0.141	MDL	10.6	PQL	pg/L	U	B
2,3,7,8-TCDD	0.320	JBQ	0.272	MDL	2.12	PQL	pg/L	U	B
OCDD	9.11	JB	0.303	MDL	21.2	PQL	pg/L	U	B
OCDF	1.90	JB	0.402	MDL	21.2	PQL	pg/L	U	B

Sample ID: EB14-SA5DN-SB-060311 *Collected:* 6/3/2011 12:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.48	JB	0.293	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.902	JB	0.114	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.283	JB	0.135	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.295	JBQ	0.140	MDL	10.4	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.373	JBQ	0.195	MDL	10.4	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.396	JB	0.138	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.560	JB	0.192	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.649	JBQ	0.153	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.549	JBQ	0.153	MDL	10.4	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.397	JB	0.140	MDL	10.4	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.712	JB	0.137	MDL	10.4	PQL	pg/L	U	B
OCDD	9.80	JB	0.276	MDL	20.8	PQL	pg/L	U	B
OCDF	1.73	JBQ	0.408	MDL	20.8	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 Laboratory: LL

EDD Filename: PrepDX098_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP-13-SA5DN-QC-060311 *Collected:* 6/3/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.02	JB	0.0280	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.236	JB	0.0392	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.272	JQ	0.0481	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.303	JB	0.0381	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.958	JB	0.0506	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.179	JB	0.0345	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.06	JB	0.0496	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.06	JB	0.0361	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.205	JB	0.0309	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.234	JB	0.0224	MDL	5.19	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.211	JB	0.0332	MDL	5.19	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.227	JB	0.0206	MDL	5.19	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0227	JQ	0.0172	MDL	1.04	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.123	J	0.0382	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	6.78	JB	0.0419	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-016-SA5DN-SB-12.0-13.0 *Collected:* 6/2/2011 10:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.14	JB	0.0283	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.143	JBQ	0.00995	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0704	JBQ	0.0210	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0368	JBQ	0.0165	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0865	JBQ	0.0247	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0431	JBQ	0.0167	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0533	JBQ	0.0174	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0397	JBQ	0.0163	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0500	JBQ	0.0229	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0193	JBQ	0.0138	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0742	JBQ	0.0154	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0783	JQ	0.0152	MDL	5.59	PQL	ng/Kg	J	Z
OCDD	10.9	JB	0.0286	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.379	JBQ	0.0543	MDL	11.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory:** LL

EDD Filename: PrepDX098_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-016-SA5DN-SB-4.0-5.0 *Collected:* 6/2/2011 10:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.16	JB	0.0343	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.410	JB	0.0189	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.148	JB	0.0193	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0522	JBQ	0.0251	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.128	JB	0.0471	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.240	JBQ	0.0274	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.119	JBQ	0.0403	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.337	JB	0.0250	MDL	5.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.363	JB	0.0256	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0737	JB	0.0296	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0868	JBQ	0.0162	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.139	JB	0.0188	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.179	JQ	0.0172	MDL	5.90	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0206	JBQ	0.0191	MDL	1.18	PQL	ng/Kg	U	B
OCDF	1.32	JB	0.0396	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-019-SA5DN-SB-4.0-5.0 *Collected:* 6/3/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.313	JB	0.0273	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0493	JBQ	0.0147	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0372	JB	0.0190	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0347	JQ	0.0157	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0308	JB	0.0132	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0405	JBQ	0.0161	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0341	JB	0.0110	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0375	JB	0.0147	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0436	JBQ	0.00998	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0278	JBQ	0.0138	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0279	JB	0.00661	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0196	JBQ	0.00824	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0636	JBQ	0.00673	MDL	5.63	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0171	JQ	0.0130	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0171	JQ	0.0107	MDL	1.13	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory:** LL

EDD Filename: PrepDX098_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-019-SA5DN-SB-4.0-5.0 *Collected:* 6/3/2011 11:16:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	1.11	JB	0.0316	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.126	JB	0.0340	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-019-SA5DN-SB-9.0-10.0 *Collected:* 6/3/2011 2:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.30	JB	0.0565	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.116	JBQ	0.0150	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0495	JBQ	0.0209	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0523	JBQ	0.0210	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0700	JBQ	0.0135	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.103	JB	0.0216	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0627	JB	0.0125	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0784	JBQ	0.0214	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0587	JBQ	0.0145	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0890	JBQ	0.0147	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0988	JBQ	0.00802	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0406	JB	0.0128	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0942	JB	0.00768	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0365	JQ	0.0126	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0264	JBQ	0.0133	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.255	JBQ	0.0422	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-021-SA5DN-SB-19.5-20.5 *Collected:* 6/2/2011 2:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.96	JB	0.0406	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.147	JB	0.0125	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0446	JB	0.0207	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0288	JB	0.0102	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0828	JB	0.0174	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0166	JBQ	0.00869	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0413	JB	0.0161	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0423	JBQ	0.0117	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0251	JBQ	0.00757	MDL	5.56	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory:** LL

EDD Filename: PrepDX098_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-021-SA5DN-SB-19.5-20.5 *Collected:* 6/2/2011 2:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0400	JBQ	0.00746	MDL	5.56	PQL	ng/Kg	U	B
OCDF	0.357	JBQ	0.0345	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-021-SA5DN-SB-4.0-5.0 *Collected:* 6/2/2011 2:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.04	JB	0.0377	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.229	JB	0.0162	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0776	JBQ	0.0224	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.307	JBQ	0.0412	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.147	JB	0.0237	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.187	JB	0.0228	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.214	JBQ	0.0262	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0400	JBQ	0.0268	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0510	JBQ	0.0214	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0914	JB	0.0199	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.154	JQ	0.0222	MDL	5.63	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0296	JBQ	0.0194	MDL	1.13	PQL	ng/Kg	U	B
OCDF	0.743	JBQ	0.0460	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-027-SA5DN-SB-14.0-15.0 *Collected:* 6/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.221	JBQ	0.0239	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0333	JB	0.0107	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0141	JQ	0.0120	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0176	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0180	JB	0.0113	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0319	JBQ	0.00886	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0110	JBQ	0.00709	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0306	JB	0.00709	MDL	5.53	PQL	ng/Kg	U	B
OCDD	0.839	JB	0.0293	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.0963	JBQ	0.0289	MDL	11.1	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory:** LL

EDD Filename: PrepDX098_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-027-SA5DN-SB-4.0-5.0 *Collected:* 6/3/2011 2:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.11	JB	0.0416	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.169	JBQ	0.0125	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0356	JBQ	0.0188	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0265	J	0.0219	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0684	JBQ	0.0170	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.218	JB	0.0225	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0228	JBQ	0.0146	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.245	JB	0.0214	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.317	JB	0.0170	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0507	JB	0.0178	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0930	JB	0.00964	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0310	JBQ	0.0148	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0805	JB	0.00941	MDL	5.47	PQL	ng/Kg	U	B
OCDF	0.555	JB	0.0344	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-052-SA5DN-SB-4.0-5.0 *Collected:* 6/3/2011 4:04:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.389	JBQ	0.0224	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0188	JBQ	0.00759	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0127	JBQ	0.0125	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.179	JB	0.0203	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0164	JB	0.0109	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.341	JB	0.0203	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.352	JB	0.0128	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0415	JBQ	0.00770	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0200	JBQ	0.0112	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0303	JB	0.00759	MDL	5.38	PQL	ng/Kg	U	B
OCDD	1.22	JB	0.0295	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.0998	JBQ	0.0253	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-052-SA5DN-SB-9.0-10.0 *Collected:* 6/3/2011 4:08:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.350	JB	0.0268	MDL	5.53	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 Laboratory: LL

EDD Filename: PrepDX098_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-052-SA5DN-SB-9.0-10.0 *Collected:* 6/3/2011 4:08:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.0238	JBQ	0.00861	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0175	JBQ	0.0121	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0129	JB	0.0103	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0102	JB	0.00884	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0370	JB	0.0140	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.00970	JBQ	0.00781	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0304	JBQ	0.00838	MDL	5.53	PQL	ng/Kg	U	B
OCDD	1.41	JB	0.0365	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.0833	JBQ	0.0255	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-152-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.968	JB	0.0194	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.148	JBQ	0.0286	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.136	J	0.0370	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.220	JB	0.0295	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.351	JBQ	0.0376	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.154	JB	0.0267	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.340	JB	0.0353	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.111	JB	0.0339	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0763	JB	0.0209	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.136	JB	0.0156	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.160	JB	0.0277	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.188	JBQ	0.0147	MDL	5.35	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0200	JQ	0.0141	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0756	JQ	0.0247	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	2.47	JB	0.0314	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-153-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.756	JB	0.0227	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.104	JB	0.0334	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0751	J	0.0389	MDL	5.32	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 Laboratory: LL

EDD Filename: PrepDX098_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-153-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.117	JBQ	0.0282	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.551	JB	0.0400	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0790	JB	0.0244	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.728	JB	0.0385	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.556	JB	0.0275	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.119	JB	0.0260	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.159	JB	0.0178	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0865	JBQ	0.0266	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.114	JB	0.0174	MDL	5.32	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0465	J	0.0283	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	2.24	JB	0.0333	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-154-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 11:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.86	JB	0.0191	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.182	JB	0.0290	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.151	J	0.0368	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.220	JB	0.0313	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.867	JB	0.0381	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.144	JB	0.0288	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.12	JB	0.0362	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.989	JB	0.0305	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.204	JBQ	0.0341	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.298	JB	0.0174	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.132	JB	0.0291	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.153	JB	0.0167	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0210	J	0.0151	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0525	J	0.0335	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	8.05	JB	0.0252	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-155-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.09	JB	0.0262	MDL	5.16	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 Laboratory: LL

EDD Filename: PrepDX098_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-155-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.243	JBQ	0.0360	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.287	JQ	0.0490	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.294	JBQ	0.0356	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.05	JB	0.0527	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.200	JB	0.0331	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.08	JB	0.0507	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.04	JBQ	0.0386	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.203	JBQ	0.0331	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.327	JB	0.0224	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.225	JBQ	0.0331	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.318	JB	0.0213	MDL	5.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0404	J	0.0144	MDL	1.03	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.169	J	0.0380	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	6.88	JB	0.0362	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-156-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 9:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.31	JB	0.0278	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.409	JB	0.0397	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.387	J	0.0509	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.570	JB	0.0447	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.36	JB	0.0527	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.410	JB	0.0408	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.44	JB	0.0498	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.49	JB	0.0443	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.403	JBQ	0.0400	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.685	JB	0.0288	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.385	JB	0.0420	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.540	JB	0.0274	MDL	5.54	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0667	JQ	0.0188	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.283	J	0.0574	MDL	1.11	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory:** LL

EDD Filename: PrepDX098_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-157-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.61	JB	0.0192	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.178	JB	0.0276	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.225	JQ	0.0435	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.400	JBQ	0.0360	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.865	JB	0.0435	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.280	JBQ	0.0328	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.03	JB	0.0418	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.21	JB	0.0357	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.342	JB	0.0320	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.478	JB	0.0248	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.270	JB	0.0352	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.513	JB	0.0239	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0441	J	0.0164	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.290	J	0.0497	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	5.00	JB	0.0315	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-158-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.36	JB	0.0189	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.122	JB	0.0281	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.155	J	0.0417	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.297	JB	0.0362	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.751	JB	0.0436	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.202	JB	0.0324	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.866	JB	0.0428	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.07	JB	0.0355	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.196	JB	0.0301	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.330	JB	0.0253	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.199	JB	0.0323	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.388	JB	0.0243	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0223	J	0.0172	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.259	J	0.0479	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	4.03	JB	0.0332	MDL	10.7	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory:** LL

EDD Filename: PrepDX098_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-159-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.58	JB	0.0199	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.154	JBQ	0.0295	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.132	JQ	0.0379	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.475	JB	0.0423	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.958	JB	0.0398	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.235	JB	0.0383	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.13	JB	0.0384	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.35	JB	0.0413	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.183	JB	0.0392	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.925	JB	0.0384	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.189	JBQ	0.0375	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.575	JB	0.0361	MDL	5.53	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0273	JQ	0.0180	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.532	J	0.108	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	4.96	JB	0.0265	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-160-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.25	JB	0.0298	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.511	JB	0.0188	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0428	JB	0.0264	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0618	JQ	0.0318	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0884	JBQ	0.0201	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.437	JB	0.0330	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0792	JB	0.0183	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.639	JB	0.0315	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.822	JB	0.0193	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0859	JBQ	0.0288	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.181	JB	0.0158	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0516	JBQ	0.0184	MDL	5.16	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.107	JBQ	0.0154	MDL	5.16	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0193	J	0.0176	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.75	JB	0.0234	MDL	10.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory:** LL

EDD Filename: PrepDX098_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-162-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 2:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.10	JB	0.0208	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.103	JBQ	0.0231	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.197	J	0.0419	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.348	JBQ	0.0353	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.01	JB	0.0439	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.197	JB	0.0329	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.26	JB	0.0410	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.17	JB	0.0276	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.242	JBQ	0.0404	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.238	JB	0.0223	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.179	JBQ	0.0278	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.358	JB	0.0211	MDL	5.52	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0410	JQ	0.0157	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.252	J	0.0428	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	2.99	JB	0.0243	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-166-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 3:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.44	JB	0.0261	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.164	JBQ	0.0369	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.204	J	0.0493	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.611	JB	0.0405	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.807	JB	0.0519	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.228	JBQ	0.0373	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.558	JB	0.0477	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.296	JB	0.0408	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.163	JBQ	0.0302	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.602	JB	0.0432	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.271	JB	0.0375	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.571	JB	0.0405	MDL	5.43	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.659	J	0.109	MDL	1.09	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory:** LL

EDD Filename: PrepDX098_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-207-SA5DN-SS-0.0-0.5 *Collected:* 6/3/2011 8:35:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.06	JB	0.0455	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.624	JB	0.0550	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.260	J	0.0676	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.15	JB	0.0714	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.32	JB	0.121	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.35	JB	0.0682	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.33	JB	0.112	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.17	JB	0.100	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.47	JB	0.147	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.28	JB	0.109	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.12	JB	0.137	MDL	5.29	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.371	J	0.0247	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	6.73	JB	0.0502	MDL	10.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX098

Method Blank Outlier Report

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1610B372350	6/14/2011 11:50:00 PM	1,2,3,4,6,7,8-HPCDD	5.46 pg/L	EB13-SA5DN-SS-060311
		1,2,3,4,6,7,8-HPCDF	1.68 pg/L	EB14-SA5DN-SB-060311
		1,2,3,4,7,8,9-HPCDF	1.16 pg/L	
		1,2,3,4,7,8-HxCDD	0.701 pg/L	
		1,2,3,4,7,8-HXCDF	0.730 pg/L	
		1,2,3,6,7,8-HXCDD	0.697 pg/L	
		1,2,3,6,7,8-HXCDF	0.764 pg/L	
		1,2,3,7,8,9-HXCDD	1.10 pg/L	
		1,2,3,7,8,9-HXCDF	0.850 pg/L	
		1,2,3,7,8-PECDD	0.608 pg/L	
		1,2,3,7,8-PECDF	0.737 pg/L	
		2,3,4,6,7,8-HXCDF	0.683 pg/L	
		2,3,4,7,8-PECDF	0.940 pg/L	
		2,3,7,8-TCDD	0.359 pg/L	
		OCDD	13.0 pg/L	
		OCDF	5.00 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB13-SA5DN-SS-060311(RES)	1,2,3,4,6,7,8-HPCDD	4.91 pg/L	4.91U pg/L
EB13-SA5DN-SS-060311(RES)	1,2,3,4,6,7,8-HPCDF	0.801 pg/L	0.801U pg/L
EB13-SA5DN-SS-060311(RES)	1,2,3,4,7,8,9-HPCDF	0.250 pg/L	0.250U pg/L
EB13-SA5DN-SS-060311(RES)	1,2,3,4,7,8-HxCDD	0.207 pg/L	0.207U pg/L
EB13-SA5DN-SS-060311(RES)	1,2,3,4,7,8-HXCDF	0.399 pg/L	0.399U pg/L
EB13-SA5DN-SS-060311(RES)	1,2,3,6,7,8-HXCDD	0.471 pg/L	0.471U pg/L
EB13-SA5DN-SS-060311(RES)	1,2,3,6,7,8-HXCDF	0.391 pg/L	0.391U pg/L
EB13-SA5DN-SS-060311(RES)	1,2,3,7,8,9-HXCDD	0.380 pg/L	0.380U pg/L
EB13-SA5DN-SS-060311(RES)	1,2,3,7,8,9-HXCDF	0.324 pg/L	0.324U pg/L
EB13-SA5DN-SS-060311(RES)	1,2,3,7,8-PECDF	0.312 pg/L	0.312U pg/L
EB13-SA5DN-SS-060311(RES)	2,3,4,6,7,8-HXCDF	0.344 pg/L	0.344U pg/L
EB13-SA5DN-SS-060311(RES)	2,3,4,7,8-PECDF	0.551 pg/L	0.551U pg/L
EB13-SA5DN-SS-060311(RES)	2,3,7,8-TCDD	0.320 pg/L	0.320U pg/L
EB13-SA5DN-SS-060311(RES)	OCDD	9.11 pg/L	9.11U pg/L
EB13-SA5DN-SS-060311(RES)	OCDF	1.90 pg/L	1.90U pg/L
EB14-SA5DN-SB-060311(RES)	1,2,3,4,6,7,8-HPCDD	4.48 pg/L	4.48U pg/L
EB14-SA5DN-SB-060311(RES)	1,2,3,4,6,7,8-HPCDF	0.902 pg/L	0.902U pg/L
EB14-SA5DN-SB-060311(RES)	1,2,3,4,7,8,9-HPCDF	0.283 pg/L	0.283U pg/L
EB14-SA5DN-SB-060311(RES)	1,2,3,4,7,8-HXCDF	0.295 pg/L	0.295U pg/L
EB14-SA5DN-SB-060311(RES)	1,2,3,6,7,8-HXCDD	0.373 pg/L	0.373U pg/L
EB14-SA5DN-SB-060311(RES)	1,2,3,6,7,8-HXCDF	0.396 pg/L	0.396U pg/L
EB14-SA5DN-SB-060311(RES)	1,2,3,7,8,9-HXCDD	0.560 pg/L	0.560U pg/L
EB14-SA5DN-SB-060311(RES)	1,2,3,7,8,9-HXCDF	0.649 pg/L	0.649U pg/L
EB14-SA5DN-SB-060311(RES)	1,2,3,7,8-PECDF	0.549 pg/L	0.549U pg/L
EB14-SA5DN-SB-060311(RES)	2,3,4,6,7,8-HXCDF	0.397 pg/L	0.397U pg/L
EB14-SA5DN-SB-060311(RES)	2,3,4,7,8-PECDF	0.712 pg/L	0.712U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB14-SA5DN-SB-060311(RES)	OCDD	9.80 pg/L	9.80U pg/L
EB14-SA5DN-SB-060311(RES)	OCDF	1.73 pg/L	1.73U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1590B372132	6/11/2011 9:32:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,7,8-TCDD OCDD OCDF	0.200 ng/Kg 0.156 ng/Kg 0.109 ng/Kg 0.0371 ng/Kg 0.0750 ng/Kg 0.0439 ng/Kg 0.0456 ng/Kg 0.0360 ng/Kg 0.0768 ng/Kg 0.0516 ng/Kg 0.0331 ng/Kg 0.0650 ng/Kg 0.0249 ng/Kg 0.698 ng/Kg 0.500 ng/Kg	SL-016-SA5DN-SB-12.0-13.0 SL-016-SA5DN-SB-4.0-5.0 SL-021-SA5DN-SB-4.0-5.0
BLK1680B370235	6/24/2011 2:35:00 AM	2,3,7,8-TCDF	0.101 ng/Kg	DUP-13-SA5DN-QC-060311 SL-019-SA5DN-SB-4.0-5.0 SL-021-SA5DN-SB-19.5-20.5 SL-027-SA5DN-SB-14.0-15.0 SL-027-SA5DN-SB-4.0-5.0 SL-052-SA5DN-SB-4.0-5.0 SL-052-SA5DN-SB-9.0-10.0 SL-152-SA5DN-SS-0.0-0.5 SL-153-SA5DN-SS-0.0-0.5 SL-154-SA5DN-SS-0.0-0.5 SL-155-SA5DN-SS-0.0-0.5 SL-156-SA5DN-SS-0.0-0.5 SL-157-SA5DN-SS-0.0-0.5 SL-158-SA5DN-SS-0.0-0.5 SL-159-SA5DN-SS-0.0-0.5 SL-160-SA5DN-SS-0.0-0.5 SL-162-SA5DN-SS-0.0-0.5 SL-166-SA5DN-SS-0.0-0.5 SL-207-SA5DN-SS-0.0-0.5

Method Blank Outlier Report

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1680B371727	6/20/2011 5:27:00 PM	1,2,3,4,6,7,8-HPCDD	0.354 ng/Kg	DUP-13-SA5DN-QC-060311
		1,2,3,4,6,7,8-HPCDF	0.0766 ng/Kg	SL-019-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0537 ng/Kg	SL-021-SA5DN-SB-19.5-20.5
		1,2,3,4,7,8-HXCDF	0.0253 ng/Kg	SL-027-SA5DN-SB-14.0-15.0
		1,2,3,6,7,8-HXCDD	0.0449 ng/Kg	SL-027-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0371 ng/Kg	SL-052-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0269 ng/Kg	SL-052-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0358 ng/Kg	SL-152-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDD	0.0289 ng/Kg	SL-153-SA5DN-SS-0.0-0.5
		1,2,3,7,8-PECDF	0.0201 ng/Kg	SL-154-SA5DN-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0289 ng/Kg	SL-155-SA5DN-SS-0.0-0.5
		2,3,4,7,8-PECDF	0.0487 ng/Kg	SL-156-SA5DN-SS-0.0-0.5
		OCDD	1.63 ng/Kg	SL-157-SA5DN-SS-0.0-0.5
		OCDF	0.178 ng/Kg	SL-158-SA5DN-SS-0.0-0.5
				SL-159-SA5DN-SS-0.0-0.5
				SL-160-SA5DN-SS-0.0-0.5
				SL-162-SA5DN-SS-0.0-0.5
				SL-166-SA5DN-SS-0.0-0.5
				SL-207-SA5DN-SS-0.0-0.5
BLK1780B371754	6/28/2011 5:54:00 PM	1,2,3,4,6,7,8-HPCDD	0.357 ng/Kg	SL-019-SA5DN-SB-9.0-10.0
		1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.0781 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0572 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0465 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0570 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0500 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0780 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0771 ng/Kg	
		1,2,3,7,8-PECDD	0.0470 ng/Kg	
		1,2,3,7,8-PECDF	0.0379 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0295 ng/Kg	
		2,3,4,7,8-PECDF	0.0563 ng/Kg	
		2,3,7,8-TCDF	0.0118 ng/Kg	
		OCDD	0.811 ng/Kg	
		OCDF	0.234 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-13-SA5DN-QC-060311(RES)	1,2,3,4,7,8,9-HPCDF	0.236 ng/Kg	0.236U ng/Kg
DUP-13-SA5DN-QC-060311(RES)	1,2,3,6,7,8-HXCDF	0.179 ng/Kg	0.179U ng/Kg
DUP-13-SA5DN-QC-060311(RES)	2,3,4,7,8-PECDF	0.227 ng/Kg	0.227U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,6,7,8-HPCDF	0.143 ng/Kg	0.143U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0704 ng/Kg	0.0704U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,7,8-HxCDD	0.0368 ng/Kg	0.0368U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,7,8-HXCDF	0.0865 ng/Kg	0.0865U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	1,2,3,6,7,8-HXCDD	0.0431 ng/Kg	0.0431U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	1,2,3,6,7,8-HXCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	1,2,3,7,8,9-HXCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	1,2,3,7,8,9-HXCDF	0.0500 ng/Kg	0.0500U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	1,2,3,7,8-PECDF	0.0193 ng/Kg	0.0193U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	2,3,4,6,7,8-HXCDF	0.0742 ng/Kg	0.0742U ng/Kg
SL-016-SA5DN-SB-12.0-13.0(RES)	OCDF	0.379 ng/Kg	0.379U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-016-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.410 ng/Kg	0.410U ng/Kg
SL-016-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.148 ng/Kg	0.148U ng/Kg
SL-016-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0522 ng/Kg	0.0522U ng/Kg
SL-016-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-016-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.119 ng/Kg	0.119U ng/Kg
SL-016-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.363 ng/Kg	0.363U ng/Kg
SL-016-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0737 ng/Kg	0.0737U ng/Kg
SL-016-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-016-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-016-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0206 ng/Kg	0.0206U ng/Kg
SL-016-SA5DN-SB-4.0-5.0(RES)	OCDF	1.32 ng/Kg	1.32U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.313 ng/Kg	0.313U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0493 ng/Kg	0.0493U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0372 ng/Kg	0.0372U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0308 ng/Kg	0.0308U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0405 ng/Kg	0.0405U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0341 ng/Kg	0.0341U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0375 ng/Kg	0.0375U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0436 ng/Kg	0.0436U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0278 ng/Kg	0.0278U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0279 ng/Kg	0.0279U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	OCDD	1.11 ng/Kg	1.11U ng/Kg
SL-019-SA5DN-SB-4.0-5.0(RES)	OCDF	0.126 ng/Kg	0.126U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.30 ng/Kg	1.30U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.116 ng/Kg	0.116U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0523 ng/Kg	0.0523U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0700 ng/Kg	0.0700U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.103 ng/Kg	0.103U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0627 ng/Kg	0.0627U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0784 ng/Kg	0.0784U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0587 ng/Kg	0.0587U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0890 ng/Kg	0.0890U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0988 ng/Kg	0.0988U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0406 ng/Kg	0.0406U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-019-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0942 ng/Kg	0.0942U ng/Kg
SL-019-SA5DN-SB-9.0-10.0(RES)	OCDF	0.255 ng/Kg	0.255U ng/Kg
SL-021-SA5DN-SB-19.5-20.5(RES)	1,2,3,4,6,7,8-HPCDF	0.147 ng/Kg	0.147U ng/Kg
SL-021-SA5DN-SB-19.5-20.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0446 ng/Kg	0.0446U ng/Kg
SL-021-SA5DN-SB-19.5-20.5(RES)	1,2,3,4,7,8-HXCDF	0.0288 ng/Kg	0.0288U ng/Kg
SL-021-SA5DN-SB-19.5-20.5(RES)	1,2,3,6,7,8-HXCDD	0.0828 ng/Kg	0.0828U ng/Kg
SL-021-SA5DN-SB-19.5-20.5(RES)	1,2,3,6,7,8-HXCDF	0.0166 ng/Kg	0.0166U ng/Kg
SL-021-SA5DN-SB-19.5-20.5(RES)	1,2,3,7,8,9-HXCDD	0.0413 ng/Kg	0.0413U ng/Kg
SL-021-SA5DN-SB-19.5-20.5(RES)	1,2,3,7,8,9-HXCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-021-SA5DN-SB-19.5-20.5(RES)	1,2,3,7,8-PECDF	0.0251 ng/Kg	0.0251U ng/Kg
SL-021-SA5DN-SB-19.5-20.5(RES)	2,3,4,7,8-PECDF	0.0400 ng/Kg	0.0400U ng/Kg
SL-021-SA5DN-SB-19.5-20.5(RES)	OCDF	0.357 ng/Kg	0.357U ng/Kg
SL-021-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.229 ng/Kg	0.229U ng/Kg
SL-021-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0776 ng/Kg	0.0776U ng/Kg
SL-021-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.307 ng/Kg	0.307U ng/Kg
SL-021-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.147 ng/Kg	0.147U ng/Kg
SL-021-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.214 ng/Kg	0.214U ng/Kg
SL-021-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0400 ng/Kg	0.0400U ng/Kg
SL-021-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0510 ng/Kg	0.0510U ng/Kg
SL-021-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0914 ng/Kg	0.0914U ng/Kg
SL-021-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0296 ng/Kg	0.0296U ng/Kg
SL-021-SA5DN-SB-4.0-5.0(RES)	OCDF	0.743 ng/Kg	0.743U ng/Kg
SL-027-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,6,7,8-HPCDD	0.221 ng/Kg	0.221U ng/Kg
SL-027-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0333 ng/Kg	0.0333U ng/Kg
SL-027-SA5DN-SB-14.0-15.0(RES)	1,2,3,6,7,8-HXCDF	0.0176 ng/Kg	0.0176U ng/Kg
SL-027-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8,9-HXCDD	0.0180 ng/Kg	0.0180U ng/Kg
SL-027-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8,9-HXCDF	0.0319 ng/Kg	0.0319U ng/Kg
SL-027-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8-PECDF	0.0110 ng/Kg	0.0110U ng/Kg
SL-027-SA5DN-SB-14.0-15.0(RES)	2,3,4,7,8-PECDF	0.0306 ng/Kg	0.0306U ng/Kg
SL-027-SA5DN-SB-14.0-15.0(RES)	OCDD	0.839 ng/Kg	0.839U ng/Kg
SL-027-SA5DN-SB-14.0-15.0(RES)	OCDF	0.0963 ng/Kg	0.0963U ng/Kg
SL-027-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.169 ng/Kg	0.169U ng/Kg
SL-027-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0356 ng/Kg	0.0356U ng/Kg
SL-027-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0684 ng/Kg	0.0684U ng/Kg
SL-027-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.218 ng/Kg	0.218U ng/Kg
SL-027-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0228 ng/Kg	0.0228U ng/Kg
SL-027-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0507 ng/Kg	0.0507U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-027-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0930 ng/Kg	0.0930U ng/Kg
SL-027-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0310 ng/Kg	0.0310U ng/Kg
SL-027-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-027-SA5DN-SB-4.0-5.0(RES)	OCDF	0.555 ng/Kg	0.555U ng/Kg
SL-052-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.389 ng/Kg	0.389U ng/Kg
SL-052-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0188 ng/Kg	0.0188U ng/Kg
SL-052-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0127 ng/Kg	0.0127U ng/Kg
SL-052-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.179 ng/Kg	0.179U ng/Kg
SL-052-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0164 ng/Kg	0.0164U ng/Kg
SL-052-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-052-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0200 ng/Kg	0.0200U ng/Kg
SL-052-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-052-SA5DN-SB-4.0-5.0(RES)	OCDD	1.22 ng/Kg	1.22U ng/Kg
SL-052-SA5DN-SB-4.0-5.0(RES)	OCDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-052-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.350 ng/Kg	0.350U ng/Kg
SL-052-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0238 ng/Kg	0.0238U ng/Kg
SL-052-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0175 ng/Kg	0.0175U ng/Kg
SL-052-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0129 ng/Kg	0.0129U ng/Kg
SL-052-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0102 ng/Kg	0.0102U ng/Kg
SL-052-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0370 ng/Kg	0.0370U ng/Kg
SL-052-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.00970 ng/Kg	0.00970U ng/Kg
SL-052-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0304 ng/Kg	0.0304U ng/Kg
SL-052-SA5DN-SB-9.0-10.0(RES)	OCDD	1.41 ng/Kg	1.41U ng/Kg
SL-052-SA5DN-SB-9.0-10.0(RES)	OCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-152-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.148 ng/Kg	0.148U ng/Kg
SL-152-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.154 ng/Kg	0.154U ng/Kg
SL-152-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-152-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0763 ng/Kg	0.0763U ng/Kg
SL-152-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.188 ng/Kg	0.188U ng/Kg
SL-153-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-153-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-153-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0790 ng/Kg	0.0790U ng/Kg
SL-153-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.119 ng/Kg	0.119U ng/Kg
SL-153-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0865 ng/Kg	0.0865U ng/Kg
SL-153-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.114 ng/Kg	0.114U ng/Kg
SL-154-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.182 ng/Kg	0.182U ng/Kg
SL-154-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX098 | Laboratory: LL

EDD Filename: PrepDX098_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-154-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-154-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.153 ng/Kg	0.153U ng/Kg
SL-155-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.243 ng/Kg	0.243U ng/Kg
SL-157-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.178 ng/Kg	0.178U ng/Kg
SL-158-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-159-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.154 ng/Kg	0.154U ng/Kg
SL-160-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0428 ng/Kg	0.0428U ng/Kg
SL-160-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0884 ng/Kg	0.0884U ng/Kg
SL-160-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0792 ng/Kg	0.0792U ng/Kg
SL-160-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0859 ng/Kg	0.0859U ng/Kg
SL-160-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0516 ng/Kg	0.0516U ng/Kg
SL-160-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.107 ng/Kg	0.107U ng/Kg
SL-162-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.103 ng/Kg	0.103U ng/Kg
SL-166-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.164 ng/Kg	0.164U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: PrepDX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA5DN-SS-0.0-0.5	DUP-13-SA5DN-QC-060311			
MOISTURE	4.4	4.6	4		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA5DN-SS-0.0-0.5	DUP-13-SA5DN-QC-060311			
1,2,3,4,6,7,8-HPCDD	14.2	15.0	5	50.00	
1,2,3,4,6,7,8-HPCDF	2.09	2.02	3	50.00	
1,2,3,4,7,8,9-HPCDF	0.243	0.236	3	50.00	
1,2,3,4,7,8-HxCDD	0.287	0.272	5	50.00	
1,2,3,4,7,8-HXCDF	0.294	0.303	3	50.00	
1,2,3,6,7,8-HXCDD	1.05	0.958	9	50.00	
1,2,3,6,7,8-HXCDF	0.200	0.179	11	50.00	
1,2,3,7,8,9-HXCDD	1.08	1.06	2	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	1.04	1.06	2	50.00	
1,2,3,7,8-PECDD	0.203	0.205	1	50.00	
1,2,3,7,8-PECDF	0.327	0.234	33	50.00	
2,3,4,6,7,8-HXCDF	0.225	0.211	6	50.00	
2,3,4,7,8-PECDF	0.318	0.227	33	50.00	
2,3,7,8-TCDF	0.169	0.123	32	50.00	
OCDD	186	190	2	50.00	
OCDF	6.88	6.78	1	50.00	
2,3,7,8-TCDD	0.0404	0.0227	56	50.00	J(all detects)

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: DX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB13-SA5DN-SS-060311	1,2,3,4,6,7,8-HPCDD	JBQ	4.91	10.6	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.801	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.250	10.6	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.207	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.399	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.471	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.391	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.380	10.6	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.324	10.6	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.312	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.344	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.551	10.6	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.320	2.12	PQL	pg/L	
	OCDD	JB	9.11	21.2	PQL	pg/L	
	OCDF	JB	1.90	21.2	PQL	pg/L	
EB14-SA5DN-SB-060311	1,2,3,4,6,7,8-HPCDD	JB	4.48	10.4	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.902	10.4	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.283	10.4	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.295	10.4	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.373	10.4	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.396	10.4	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.560	10.4	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.649	10.4	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.549	10.4	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.397	10.4	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.712	10.4	PQL	pg/L	
	OCDD	JB	9.80	20.8	PQL	pg/L	
	OCDF	JBQ	1.73	20.8	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-207-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF	B	2.30	1.06	PQL	ng/Kg	
DUP-13-SA5DN-QC-060311	1,2,3,4,6,7,8-HPCDF	JB	2.02	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.236	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.272	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.303	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.958	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.179	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.06	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.06	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.205	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.234	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.211	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.227	5.19	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0227	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.123	1.04	PQL	ng/Kg	
	OCDF	JB	6.78	10.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: DX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-016-SA5DN-SB-12.0-13.0	1,2,3,4,6,7,8-HPCDD	JB	1.14	5.59	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.143	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0704	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0368	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0865	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0431	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0533	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0397	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0500	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0193	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0742	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0783	5.59	PQL	ng/Kg	
	OCDD	JB	10.9	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.379	11.2	PQL	ng/Kg	
SL-016-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.16	5.90	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.410	5.90	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.148	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0522	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.128	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.240	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.119	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.337	5.90	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.363	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0737	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0868	5.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.139	5.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.179	5.90	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0206	1.18	PQL	ng/Kg	
	OCDF	JB	1.32	11.8	PQL	ng/Kg	
SL-019-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.313	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0493	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0372	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0347	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0308	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0405	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0341	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0375	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0436	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0278	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0279	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0196	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0636	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0171	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0171	1.13	PQL	ng/Kg	
	OCDD	JB	1.11	11.3	PQL	ng/Kg	
	OCDF	JB	0.126	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: DX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-019-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.30	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.116	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0495	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0523	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0700	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.103	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0627	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0784	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0587	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0890	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0988	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0406	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0942	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0365	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0264	1.10	PQL	ng/Kg	
	OCDF	JBQ	0.255	11.0	PQL	ng/Kg	
SL-021-SA5DN-SB-19.5-20.5	1,2,3,4,6,7,8-HPCDD	JB	2.96	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.147	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0446	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0288	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0828	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0166	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0413	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0423	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0251	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0400	5.56	PQL	ng/Kg	
	OCDF	JBQ	0.357	11.1	PQL	ng/Kg	
SL-021-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.04	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.229	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0776	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.307	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.147	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.187	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.214	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0400	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0510	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0914	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.154	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0296	1.13	PQL	ng/Kg	
	OCDF	JBQ	0.743	11.3	PQL	ng/Kg	
SL-027-SA5DN-SB-14.0-15.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.221	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0333	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0141	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0176	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0180	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0319	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0110	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0306	5.53	PQL	ng/Kg	
	OCDD	JB	0.839	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.0963	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: DX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-027-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.11	5.47	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.169	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0356	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0265	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0684	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.218	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0228	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.245	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.317	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0507	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0930	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0310	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0805	5.47	PQL	ng/Kg	
	OCDF	JB	0.555	10.9	PQL	ng/Kg	
SL-052-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.389	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0188	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0127	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.179	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0164	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.341	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.352	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0415	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0200	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0303	5.38	PQL	ng/Kg	
	OCDD	JB	1.22	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.0998	10.8	PQL	ng/Kg	
SL-052-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.350	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0238	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0175	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0129	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0102	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0370	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.00970	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0304	5.53	PQL	ng/Kg	
	OCDD	JB	1.41	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.0833	11.1	PQL	ng/Kg	
SL-152-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.968	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.148	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.136	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.220	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.351	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.154	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.340	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.111	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0763	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.136	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.160	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.188	5.35	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0200	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0756	1.07	PQL	ng/Kg	
	OCDF	JB	2.47	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: DX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-153-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.756	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.104	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0751	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.117	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.551	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0790	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.728	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.556	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.119	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.159	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0865	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.114	5.32	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0465	1.06	PQL	ng/Kg	
	OCDF	JB	2.24	10.6	PQL	ng/Kg	
SL-154-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.86	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.182	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.151	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.220	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.867	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.144	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.12	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.989	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.204	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.298	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.132	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.153	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0210	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0525	1.09	PQL	ng/Kg	
	OCDF	JB	8.05	10.9	PQL	ng/Kg	
SL-155-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.09	5.16	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.243	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.287	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.294	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.05	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.200	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.08	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	1.04	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.203	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.327	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.225	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.318	5.16	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0404	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.169	1.03	PQL	ng/Kg	
	OCDF	JB	6.88	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: DX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.31	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.409	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.387	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.570	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.36	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.410	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.44	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.49	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.403	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.685	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.385	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.540	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0667	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.283	1.11	PQL	ng/Kg	
SL-157-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.61	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.178	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.225	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.400	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.865	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.280	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.03	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.21	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.342	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.478	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.270	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.513	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0441	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.290	1.08	PQL	ng/Kg	
	OCDF	JB	5.00	10.8	PQL	ng/Kg	
SL-158-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.36	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.122	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.155	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.297	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.751	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.202	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.866	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.07	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.196	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.330	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.199	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.388	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0223	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.259	1.07	PQL	ng/Kg	
	OCDF	JB	4.03	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: DX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-159-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.58	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.154	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.132	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.475	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.958	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.235	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.13	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.35	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.183	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.925	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.189	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.575	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0273	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.532	1.11	PQL	ng/Kg	
	OCDF	JB	4.96	11.1	PQL	ng/Kg	
SL-160-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.25	5.16	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.511	5.16	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0428	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0618	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0884	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.437	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0792	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.639	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.822	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0859	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.181	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0516	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.107	5.16	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0193	1.03	PQL	ng/Kg	
	OCDF	JB	1.75	10.3	PQL	ng/Kg	
SL-162-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.10	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.103	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.197	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.348	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.01	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.197	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.26	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.17	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.242	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.238	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.179	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.358	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0410	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.252	1.10	PQL	ng/Kg	
	OCDF	JB	2.99	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX098 **Laboratory: LL**

EDD Filename: DX098_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.44	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.164	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.204	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.611	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.807	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.228	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.558	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.296	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.163	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.602	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.271	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.571	5.43	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.659	1.09	PQL	ng/Kg	
SL-207-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.06	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.624	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.260	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.15	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.32	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.35	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.33	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	2.17	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.47	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.28	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.12	5.29	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.371	1.06	PQL	ng/Kg	
	OCDF	JB	6.73	10.6	PQL	ng/Kg	

LDC #: 26250ff

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: CR
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

Y N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Column	Qualifications
		SL-207-SASDN-SS-0.0-0.5	2,3,7,8-TCDF	SP2331	R/A

Comments: _____

SAMPLE DELIVERY GROUP

DX099

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
6-June-2011	SL-022-SA5DN-SB-15.0-16.0	6308049	N	METHOD	1613B	III
6-June-2011	SL-053-SA5DN-SB-4.0-5.0	6308050	N	METHOD	1613B	III
6-June-2011	SL-053-SA5DN-SB-11.5-12.5	6308051	N	METHOD	1613B	III
6-June-2011	SL-079-SA8N-SB-4.0-5.0	6308052	N	METHOD	1613B	III
6-June-2011	SL-079-SA8N-SB-9.0-10.0	6308053	N	METHOD	1613B	III
6-June-2011	SL-133-SA8N-SB-4.0-5.0	6308054	N	METHOD	1613B	III
6-June-2011	SL-022-SA5DN-SB-4.0-5.0	6308048	N	METHOD	1613B	III
6-June-2011	SL-133-SA8N-SB-7.0-8.0	6309783	N	METHOD	1613B	III
7-June-2011	SL-024-SA5DN-SB-19.0-20.0	6309774	N	METHOD	1613B	III
7-June-2011	SL-024-SA5DN-SB-4.0-5.0	6309771	N	METHOD	1613B	III
7-June-2011	SL-024-SA5DN-SB-4.0-5.0MSD	6309773	MSD	METHOD	1613B	III
7-June-2011	SL-026-SA5DN-SB-4.0-5.0	6309775	N	METHOD	1613B	III
7-June-2011	SL-026-SA5DN-SB-17.0-18.0	6309776	N	METHOD	1613B	III
7-June-2011	SL-036-SA5DN-SB-4.0-5.0	6309777	N	METHOD	1613B	III
7-June-2011	SL-036-SA5DN-SB-9.0-10.0	6309778	N	METHOD	1613B	III
7-June-2011	DUP13-SA5DN-QC-060711	6309779	FD	METHOD	1613B	III
7-June-2011	SL-071-SA8N-SB-2.0-3.0	6309780	N	METHOD	1613B	III
7-June-2011	SL-122-SA8N-SB-2.0-3.0	6309781	N	METHOD	1613B	III
7-June-2011	SL-140-SA8N-SB-3.0-4.0	6309782	N	METHOD	1613B	III
7-June-2011	SL-024-SA5DN-SB-4.0-5.0MS	6309772	MS	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP13-SA5DN-QC-060711 *Collected:* 6/7/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.24	JB	0.0372	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.107	JB	0.0109	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0576	JB	0.0144	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0484	JQ	0.0197	MDL	5.53	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0678	JB	0.0133	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.149	JB	0.0211	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0735	JBQ	0.0121	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.229	JB	0.0196	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.265	JB	0.0130	MDL	5.53	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.0690	JQ	0.0174	MDL	5.53	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.120	JB	0.00904	MDL	5.53	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0427	JB	0.0121	MDL	5.53	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0851	JBQ	0.00835	MDL	5.53	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0271	JQ	0.0158	MDL	1.11	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0257	JQ	0.0133	MDL	1.11	PQL	ng/Kg	J	Z, FD
OCDF	0.216	JB	0.0265	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-022-SA5DN-SB-15.0-16.0 *Collected:* 6/6/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.590	JBQ	0.0329	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0115	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.149	JBQ	0.0167	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.121	JQ	0.0175	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.140	JBQ	0.0148	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.113	JB	0.0187	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.120	JBQ	0.0135	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.154	JB	0.0176	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.135	JB	0.0150	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0982	JQ	0.0177	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.103	JB	0.00812	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.131	JB	0.0147	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.137	JB	0.00747	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0259	JQ	0.0189	MDL	1.07	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory:** LL

EDD Filename: DX099_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-022-SA5DN-SB-15.0-16.0 *Collected:* 6/6/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0265	J	0.0131	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	1.99	JB	0.0287	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.329	JB	0.0339	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-022-SA5DN-SB-4.0-5.0 *Collected:* 6/6/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.721	JB	0.0428	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0762	JB	0.0128	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0596	JBQ	0.0197	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0595	JQ	0.0213	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0439	JB	0.0121	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.106	JB	0.0210	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0572	JB	0.0110	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.172	JB	0.0201	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.145	JBQ	0.0137	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0754	JQ	0.0178	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0564	JBQ	0.00731	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0427	JBQ	0.0114	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0766	JBQ	0.00696	MDL	5.60	PQL	ng/Kg	U	B
OCDD	4.47	JB	0.0259	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.176	JBQ	0.0372	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-024-SA5DN-SB-19.0-20.0 *Collected:* 6/7/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.691	JB	0.0389	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.180	JBQ	0.0157	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.153	JBQ	0.0208	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.142	JQ	0.0235	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.162	JB	0.0174	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.162	JB	0.0242	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.146	JB	0.0162	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.172	JB	0.0229	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.158	JB	0.0165	MDL	5.45	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory:** LL

EDD Filename: DX099_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-024-SA5DN-SB-19.0-20.0 *Collected:* 6/7/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.142	J	0.0191	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.164	JBQ	0.00812	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.133	JB	0.0156	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.157	JB	0.00768	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0220	J	0.0180	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0368	JQ	0.0129	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	1.72	JB	0.0316	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.421	JB	0.0375	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-024-SA5DN-SB-4.0-5.0 *Collected:* 6/7/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.69	JB	0.0270	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0901	JB	0.00740	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0253	JB	0.0100	MDL	5.63	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0830	JQ	0.0156	MDL	5.63	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.144	JBQ	0.0121	MDL	5.63	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.143	JBQ	0.0164	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.150	JB	0.0113	MDL	5.63	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.178	JBQ	0.0155	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.151	JB	0.0117	MDL	5.63	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.250	J	0.0187	MDL	5.63	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.337	JB	0.00843	MDL	5.63	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0767	JBQ	0.0116	MDL	5.63	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.238	JB	0.00797	MDL	5.63	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0887	J	0.0219	MDL	1.13	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0933	JQ	0.0137	MDL	1.13	PQL	ng/Kg	J	Z, FD
OCDF	0.133	JBQ	0.0158	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-026-SA5DN-SB-17.0-18.0 *Collected:* 6/7/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.72	JB	0.0369	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0796	JB	0.0109	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0388	JB	0.0136	MDL	5.40	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory:** LL

EDD Filename: DX099_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-026-SA5DN-SB-17.0-18.0 *Collected:* 6/7/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0139	JBQ	0.00796	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0473	JBQ	0.0166	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0568	JBQ	0.0153	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0265	JBQ	0.00796	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0180	JBQ	0.00752	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0277	JBQ	0.00742	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0432	JB	0.00709	MDL	5.40	PQL	ng/Kg	U	B
OCDF	0.327	JB	0.0301	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-026-SA5DN-SB-4.0-5.0 *Collected:* 6/7/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.44	JB	0.0546	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.462	JB	0.0263	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0713	JB	0.0334	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0531	JQ	0.0382	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.438	JB	0.0402	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0812	JBQ	0.0248	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.538	JB	0.0371	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.693	JB	0.0271	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0763	J	0.0267	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.156	JB	0.0153	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0604	JB	0.0256	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.194	JB	0.0150	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0247	J	0.0192	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	1.49	JB	0.0566	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-036-SA5DN-SB-4.0-5.0 *Collected:* 6/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.69	JB	0.0449	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.103	JBQ	0.0118	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0307	JBQ	0.0147	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0218	JQ	0.0193	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0231	JBQ	0.0120	MDL	5.79	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-036-SA5DN-SB-4.0-5.0 *Collected:* 6/7/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.114	JBQ	0.0199	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0167	JB	0.0112	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.138	JB	0.0181	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.109	JB	0.0126	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0336	JQ	0.0177	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0243	JBQ	0.00989	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0124	JBQ	0.0114	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0394	JB	0.00919	MDL	5.79	PQL	ng/Kg	U	B
OCDF	0.280	JB	0.0392	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-036-SA5DN-SB-9.0-10.0 *Collected:* 6/7/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.30	JB	0.0420	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.130	JBQ	0.0121	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0200	J	0.0167	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0269	JBQ	0.0103	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0788	JBQ	0.0179	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0102	JB	0.00958	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0600	JB	0.0172	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0221	JBQ	0.00970	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0243	JQ	0.0181	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0249	JBQ	0.00797	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0178	JBQ	0.00912	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0387	JBQ	0.00739	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0283	J	0.0157	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	0.328	JB	0.0352	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-053-SA5DN-SB-11.5-12.5 *Collected:* 6/6/2011 4:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.492	JB	0.0275	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0476	JB	0.00759	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0238	JBQ	0.0116	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0417	JBQ	0.00759	MDL	5.42	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-053-SA5DN-SB-11.5-12.5 *Collected:* 6/6/2011 4:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0402	JBQ	0.0150	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0284	JB	0.00670	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0651	JBQ	0.0133	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0405	JB	0.00770	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0176	JQ	0.0146	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0291	JBQ	0.00625	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0233	JB	0.00658	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0665	JB	0.00603	MDL	5.42	PQL	ng/Kg	U	B
OCDD	1.55	JB	0.0297	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.127	JB	0.0276	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-053-SA5DN-SB-4.0-5.0 *Collected:* 6/6/2011 3:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.689	JB	0.0374	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0476	JBQ	0.00937	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0232	JBQ	0.0137	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0117	JBQ	0.00867	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0738	JBQ	0.0167	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0219	JBQ	0.00796	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.104	JBQ	0.0155	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.113	JBQ	0.00913	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0170	JB	0.00773	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0129	JBQ	0.00796	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0319	JBQ	0.00761	MDL	5.77	PQL	ng/Kg	U	B
OCDD	4.65	JB	0.0278	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.127	JB	0.0326	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-071-SA8N-SB-2.0-3.0 *Collected:* 6/7/2011 9:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.711	JB	0.0292	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.134	JB	0.0100	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0427	JBQ	0.0135	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0738	JQ	0.0214	MDL	5.27	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-071-SA8N-SB-2.0-3.0 *Collected:* 6/7/2011 9:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.127	JB	0.0178	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.966	JB	0.0225	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.186	JB	0.0164	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.68	JB	0.0208	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.391	JB	0.0172	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.286	J	0.0256	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.311	JB	0.0119	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0848	JB	0.0173	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.218	JBQ	0.0111	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0498	J	0.0157	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0758	JQ	0.0229	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	2.40	JB	0.0281	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.192	JB	0.0248	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-079-SA8N-SB-4.0-5.0 *Collected:* 6/6/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.559	JBQ	0.0292	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0435	JB	0.00987	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0140	JBQ	0.0139	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0155	JQ	0.0154	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0150	JBQ	0.00838	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0345	JBQ	0.0161	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0203	JBQ	0.00781	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0437	JBQ	0.0153	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0221	JBQ	0.00896	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0348	JQ	0.0148	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0211	JBQ	0.00815	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0121	JBQ	0.00804	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0498	JB	0.00758	MDL	5.69	PQL	ng/Kg	U	B
OCDD	1.14	JB	0.0323	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.0709	JB	0.0299	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-079-SA8N-SB-9.0-10.0 *Collected:* 6/6/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.758	JBQ	0.0293	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JB	0.00904	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0482	JB	0.0133	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0872	J	0.0177	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.167	JB	0.0144	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.111	JB	0.0185	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.139	JB	0.0136	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.128	JB	0.0182	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.107	JB	0.0140	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.202	J	0.0188	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.250	JB	0.00962	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0910	JB	0.0131	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.237	JBQ	0.00927	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0437	JQ	0.0214	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0841	JQ	0.0141	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	3.23	JB	0.0281	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.203	JB	0.0203	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-122-SA8N-SB-2.0-3.0 *Collected:* 6/7/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.02	JB	0.0416	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.229	JB	0.0137	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0335	JBQ	0.0197	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0779	JQ	0.0237	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.165	JBQ	0.0168	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.128	JB	0.0235	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.122	JB	0.0156	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.176	JBQ	0.0223	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0967	JBQ	0.0175	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.155	JQ	0.0274	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.248	JBQ	0.0168	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0862	JBQ	0.0157	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.245	JB	0.0156	MDL	5.38	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-122-SA8N-SB-2.0-3.0 *Collected:* 6/7/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0932	JQ	0.0304	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	7.69	JB	0.0291	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.341	JB	0.0314	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-133-SA8N-SB-4.0-5.0 *Collected:* 6/6/2011 4:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.07	JB	0.0298	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.360	JB	0.0135	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0787	JBQ	0.0206	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.164	J	0.0190	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.227	JB	0.0206	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.152	JB	0.0199	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.219	JB	0.0188	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.165	JB	0.0193	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.167	JB	0.0199	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.280	JQ	0.0184	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.338	JB	0.0112	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.137	JBQ	0.0188	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.279	JBQ	0.0106	MDL	5.74	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0477	J	0.0190	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0914	J	0.0289	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	0.570	JB	0.0286	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-133-SA8N-SB-7.0-8.0 *Collected:* 6/6/2011 5:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.54	JB	0.0558	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.375	JB	0.0224	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0678	JB	0.0337	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0480	JQ	0.0304	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.102	JBQ	0.0201	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0711	JBQ	0.0310	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0497	JB	0.0183	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.123	JBQ	0.0298	MDL	5.70	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory:** LL

EDD Filename: DX099_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-133-SA8N-SB-7.0-8.0 *Collected:* 6/6/2011 5:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0592	JB	0.0213	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0196	JQ	0.0176	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.228	JB	0.0178	MDL	5.70	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0439	JB	0.0191	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0910	JBQ	0.0163	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.244	J	0.0747	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	0.886	JB	0.0489	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-140-SA8N-SB-3.0-4.0 *Collected:* 6/7/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.03	JB	0.0617	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.287	JBQ	0.0263	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0804	JBQ	0.0396	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.206	J	0.0657	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.150	JB	0.0238	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.318	JB	0.0691	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0935	JB	0.0216	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.372	JB	0.0656	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.217	JBQ	0.0255	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.167	J	0.0283	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.184	JB	0.0121	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0687	JB	0.0218	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.129	JB	0.0112	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0696	J	0.0167	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0629	JQ	0.0198	MDL	1.13	PQL	ng/Kg	J	Z
OCDF	0.600	JB	0.0491	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX099

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1690B370524	6/22/2011 5:24:00 AM	1,2,3,4,6,7,8-HPCDD	0.479 ng/Kg	DUP13-SA5DN-QC-060711
		1,2,3,4,6,7,8-HPCDF	0.0762 ng/Kg	SL-022-SA5DN-SB-15.0-16.0
		1,2,3,4,7,8,9-HPCDF	0.0506 ng/Kg	SL-022-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0392 ng/Kg	SL-024-SA5DN-SB-19.0-20.0
		1,2,3,6,7,8-HXCDD	0.0621 ng/Kg	SL-024-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0252 ng/Kg	SL-026-SA5DN-SB-17.0-18.0
		1,2,3,7,8,9-HXCDD	0.0839 ng/Kg	SL-026-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0457 ng/Kg	SL-036-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0277 ng/Kg	SL-036-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0179 ng/Kg	SL-053-SA5DN-SB-11.5-12.5
		2,3,4,7,8-PECDF	0.0481 ng/Kg	SL-053-SA5DN-SB-4.0-5.0
		OCDD	1.04 ng/Kg	SL-071-SA8N-SB-2.0-3.0
		OCDF	0.246 ng/Kg	SL-079-SA8N-SB-4.0-5.0
				SL-079-SA8N-SB-9.0-10.0
				SL-122-SA8N-SB-2.0-3.0
				SL-133-SA8N-SB-4.0-5.0
				SL-133-SA8N-SB-7.0-8.0
				SL-140-SA8N-SB-3.0-4.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP13-SA5DN-QC-060711(RES)	1,2,3,4,6,7,8-HPCDD	2.24 ng/Kg	2.24U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,4,6,7,8-HPCDF	0.107 ng/Kg	0.107U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,4,7,8,9-HPCDF	0.0576 ng/Kg	0.0576U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,4,7,8-HXCDF	0.0678 ng/Kg	0.0678U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,6,7,8-HXCDD	0.149 ng/Kg	0.149U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,6,7,8-HXCDF	0.0735 ng/Kg	0.0735U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,7,8,9-HXCDD	0.229 ng/Kg	0.229U ng/Kg
DUP13-SA5DN-QC-060711(RES)	1,2,3,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
DUP13-SA5DN-QC-060711(RES)	2,3,4,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
DUP13-SA5DN-QC-060711(RES)	2,3,4,7,8-PECDF	0.0851 ng/Kg	0.0851U ng/Kg
DUP13-SA5DN-QC-060711(RES)	OCDF	0.216 ng/Kg	0.216U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,4,6,7,8-HPCDD	0.590 ng/Kg	0.590U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,4,7,8,9-HPCDF	0.149 ng/Kg	0.149U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,4,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,6,7,8-HXCDD	0.113 ng/Kg	0.113U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,7,8,9-HXCDD	0.154 ng/Kg	0.154U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	1,2,3,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	2,3,4,7,8-PECDF	0.137 ng/Kg	0.137U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	OCDD	1.99 ng/Kg	1.99U ng/Kg
SL-022-SA5DN-SB-15.0-16.0(RES)	OCDF	0.329 ng/Kg	0.329U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.721 ng/Kg	0.721U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0762 ng/Kg	0.0762U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0596 ng/Kg	0.0596U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0439 ng/Kg	0.0439U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.106 ng/Kg	0.106U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0572 ng/Kg	0.0572U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.172 ng/Kg	0.172U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0564 ng/Kg	0.0564U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0766 ng/Kg	0.0766U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	OCDD	4.47 ng/Kg	4.47U ng/Kg
SL-022-SA5DN-SB-4.0-5.0(RES)	OCDF	0.176 ng/Kg	0.176U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,4,6,7,8-HPCDD	0.691 ng/Kg	0.691U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,4,6,7,8-HPCDF	0.180 ng/Kg	0.180U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,4,7,8,9-HPCDF	0.153 ng/Kg	0.153U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,4,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,6,7,8-HXCDD	0.162 ng/Kg	0.162U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,7,8,9-HXCDD	0.172 ng/Kg	0.172U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	1,2,3,7,8,9-HXCDF	0.158 ng/Kg	0.158U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	2,3,4,7,8-PECDF	0.157 ng/Kg	0.157U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	OCDD	1.72 ng/Kg	1.72U ng/Kg
SL-024-SA5DN-SB-19.0-20.0(RES)	OCDF	0.421 ng/Kg	0.421U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.69 ng/Kg	1.69U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0901 ng/Kg	0.0901U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0253 ng/Kg	0.0253U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.143 ng/Kg	0.143U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.178 ng/Kg	0.178U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0767 ng/Kg	0.0767U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.238 ng/Kg	0.238U ng/Kg
SL-024-SA5DN-SB-4.0-5.0(RES)	OCDF	0.133 ng/Kg	0.133U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,4,6,7,8-HPCDD	1.72 ng/Kg	1.72U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0796 ng/Kg	0.0796U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0388 ng/Kg	0.0388U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,4,7,8-HXCDF	0.0139 ng/Kg	0.0139U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,6,7,8-HXCDD	0.0473 ng/Kg	0.0473U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,7,8,9-HXCDD	0.0568 ng/Kg	0.0568U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,7,8,9-HXCDF	0.0265 ng/Kg	0.0265U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	1,2,3,7,8-PECDF	0.0180 ng/Kg	0.0180U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	2,3,4,6,7,8-HXCDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	2,3,4,7,8-PECDF	0.0432 ng/Kg	0.0432U ng/Kg
SL-026-SA5DN-SB-17.0-18.0(RES)	OCDF	0.327 ng/Kg	0.327U ng/Kg
SL-026-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-026-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-026-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0604 ng/Kg	0.0604U ng/Kg
SL-026-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.194 ng/Kg	0.194U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.103 ng/Kg	0.103U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0231 ng/Kg	0.0231U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0167 ng/Kg	0.0167U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.138 ng/Kg	0.138U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0124 ng/Kg	0.0124U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-036-SA5DN-SB-4.0-5.0(RES)	OCDF	0.280 ng/Kg	0.280U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.130 ng/Kg	0.130U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0269 ng/Kg	0.0269U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0788 ng/Kg	0.0788U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0102 ng/Kg	0.0102U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0600 ng/Kg	0.0600U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0178 ng/Kg	0.0178U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0387 ng/Kg	0.0387U ng/Kg
SL-036-SA5DN-SB-9.0-10.0(RES)	OCDF	0.328 ng/Kg	0.328U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDD	0.492 ng/Kg	0.492U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0238 ng/Kg	0.0238U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HXCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDD	0.0402 ng/Kg	0.0402U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDF	0.0284 ng/Kg	0.0284U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDD	0.0651 ng/Kg	0.0651U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDF	0.0405 ng/Kg	0.0405U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8-PECDF	0.0291 ng/Kg	0.0291U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	2,3,4,6,7,8-HXCDF	0.0233 ng/Kg	0.0233U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	2,3,4,7,8-PECDF	0.0665 ng/Kg	0.0665U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	OCDD	1.55 ng/Kg	1.55U ng/Kg
SL-053-SA5DN-SB-11.5-12.5(RES)	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.689 ng/Kg	0.689U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0232 ng/Kg	0.0232U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0117 ng/Kg	0.0117U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0738 ng/Kg	0.0738U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0219 ng/Kg	0.0219U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.104 ng/Kg	0.104U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0170 ng/Kg	0.0170U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0129 ng/Kg	0.0129U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0319 ng/Kg	0.0319U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	OCDD	4.65 ng/Kg	4.65U ng/Kg
SL-053-SA5DN-SB-4.0-5.0(RES)	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.711 ng/Kg	0.711U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0848 ng/Kg	0.0848U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.218 ng/Kg	0.218U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	OCDD	2.40 ng/Kg	2.40U ng/Kg
SL-071-SA8N-SB-2.0-3.0(RES)	OCDF	0.192 ng/Kg	0.192U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.559 ng/Kg	0.559U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0435 ng/Kg	0.0435U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0140 ng/Kg	0.0140U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0150 ng/Kg	0.0150U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0345 ng/Kg	0.0345U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0203 ng/Kg	0.0203U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0437 ng/Kg	0.0437U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0211 ng/Kg	0.0211U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0121 ng/Kg	0.0121U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-079-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	OCDD	1.14 ng/Kg	1.14U ng/Kg
SL-079-SA8N-SB-4.0-5.0(RES)	OCDF	0.0709 ng/Kg	0.0709U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.758 ng/Kg	0.758U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0482 ng/Kg	0.0482U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.111 ng/Kg	0.111U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.237 ng/Kg	0.237U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	OCDD	3.23 ng/Kg	3.23U ng/Kg
SL-079-SA8N-SB-9.0-10.0(RES)	OCDF	0.203 ng/Kg	0.203U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	1.02 ng/Kg	1.02U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.229 ng/Kg	0.229U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0335 ng/Kg	0.0335U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.176 ng/Kg	0.176U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0967 ng/Kg	0.0967U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-122-SA8N-SB-2.0-3.0(RES)	OCDF	0.341 ng/Kg	0.341U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.07 ng/Kg	1.07U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.360 ng/Kg	0.360U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0787 ng/Kg	0.0787U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.152 ng/Kg	0.152U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.165 ng/Kg	0.165U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-133-SA8N-SB-4.0-5.0(RES)	OCDF	0.570 ng/Kg	0.570U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	1.54 ng/Kg	1.54U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.375 ng/Kg	0.375U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0678 ng/Kg	0.0678U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0711 ng/Kg	0.0711U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.123 ng/Kg	0.123U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-133-SA8N-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0592 ng/Kg	0.0592U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.0439 ng/Kg	0.0439U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0910 ng/Kg	0.0910U ng/Kg
SL-133-SA8N-SB-7.0-8.0(RES)	OCDF	0.886 ng/Kg	0.886U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.287 ng/Kg	0.287U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0804 ng/Kg	0.0804U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0935 ng/Kg	0.0935U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.372 ng/Kg	0.372U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.217 ng/Kg	0.217U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0687 ng/Kg	0.0687U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-140-SA8N-SB-3.0-4.0(RES)	OCDF	0.600 ng/Kg	0.600U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX099 Laboratory: LL

EDD Filename: DX099_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-024-SA5DN-SB-4.0-5.0	DUP13-SA5DN-QC-060711			
MOISTURE	12.2	12.6	3		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-024-SA5DN-SB-4.0-5.0	DUP13-SA5DN-QC-060711			
1,2,3,4,6,7,8-HPCDD	1.69	2.24	28	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.0901	0.107	17	50.00	
1,2,3,6,7,8-HXCDD	0.143	0.149	4	50.00	
1,2,3,7,8,9-HXCDD	0.178	0.229	25	50.00	
OCDD	13.5	20.1	39	50.00	
OCDF	0.133	0.216	48	50.00	
1,2,3,4,7,8,9-HPCDF	0.0253	0.0576	78	50.00	J(all detects)
1,2,3,4,7,8-HxCDD	0.0830	0.0484	53	50.00	
1,2,3,4,7,8-HXCDF	0.144	0.0678	72	50.00	
1,2,3,6,7,8-HXCDF	0.150	0.0735	68	50.00	
1,2,3,7,8,9-HXCDF	0.151	0.265	55	50.00	
1,2,3,7,8-PECDD	0.250	0.0690	113	50.00	
1,2,3,7,8-PECDF	0.337	0.120	95	50.00	
2,3,4,6,7,8-HXCDF	0.0767	0.0427	57	50.00	
2,3,4,7,8-PECDF	0.238	0.0851	95	50.00	
2,3,7,8-TCDD	0.0887	0.0271	106	50.00	
2,3,7,8-TCDF	0.0933	0.0257	114	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA5DN-QC-060711	1,2,3,4,6,7,8-HPCDD	JB	2.24	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.107	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0576	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0484	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0678	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.149	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0735	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.229	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.265	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0690	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.120	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0427	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0851	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0271	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0257	1.11	PQL	ng/Kg	
	OCDF	JB	0.216	11.1	PQL	ng/Kg	
SL-022-SA5DN-SB-15.0-16.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.590	5.33	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.149	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.121	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.140	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.113	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.120	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.154	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.135	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0982	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.103	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.131	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.137	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0259	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0265	1.07	PQL	ng/Kg	
	OCDD	JB	1.99	10.7	PQL	ng/Kg	
	OCDF	JB	0.329	10.7	PQL	ng/Kg	
SL-022-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.721	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0762	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0596	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0595	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0439	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.106	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0572	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.172	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.145	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0754	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0564	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0427	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0766	5.60	PQL	ng/Kg	
	OCDD	JB	4.47	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.176	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA5DN-SB-19.0-20.0	1,2,3,4,6,7,8-HPCDD	JB	0.691	5.45	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.180	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.153	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.142	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.162	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.162	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.146	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.172	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.158	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.142	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.164	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.133	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.157	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0220	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0368	1.09	PQL	ng/Kg	
	OCDD	JB	1.72	10.9	PQL	ng/Kg	
	OCDF	JB	0.421	10.9	PQL	ng/Kg	
SL-024-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.69	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0901	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0253	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0830	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.144	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.143	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.150	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.178	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.151	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.250	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.337	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0767	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.238	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0887	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0933	1.13	PQL	ng/Kg	
	OCDF	JBQ	0.133	11.3	PQL	ng/Kg	
SL-026-SA5DN-SB-17.0-18.0	1,2,3,4,6,7,8-HPCDD	JB	1.72	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0796	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0388	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0139	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0473	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0568	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0265	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0180	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0277	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0432	5.40	PQL	ng/Kg	
	OCDF	JB	0.327	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	5.44	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.462	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0713	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0531	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.438	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0812	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.538	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.693	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0763	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.156	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0604	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.194	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0247	1.15	PQL	ng/Kg	
	OCDF	JB	1.49	11.5	PQL	ng/Kg	
SL-036-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.69	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.103	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0307	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0218	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0231	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.114	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0167	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.138	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.109	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0336	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0243	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0124	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0394	5.79	PQL	ng/Kg	
	OCDF	JB	0.280	11.6	PQL	ng/Kg	
SL-036-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	3.30	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.130	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0200	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0269	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0788	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0102	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0600	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0221	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0243	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0249	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0178	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0387	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0283	1.14	PQL	ng/Kg	
	OCDF	JB	0.328	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-053-SA5DN-SB-11.5-12.5	1,2,3,4,6,7,8-HPCDD	JB	0.492	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0476	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0238	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0417	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0402	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0284	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0651	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0405	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0176	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0291	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0233	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0665	5.42	PQL	ng/Kg	
	OCDD	JB	1.55	10.8	PQL	ng/Kg	
	OCDF	JB	0.127	10.8	PQL	ng/Kg	
SL-053-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.689	5.77	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0476	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0232	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0117	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0738	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0219	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.104	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.113	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0170	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0129	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0319	5.77	PQL	ng/Kg	
	OCDD	JB	4.65	11.5	PQL	ng/Kg	
	OCDF	JB	0.127	11.5	PQL	ng/Kg	
SL-071-SA8N-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.711	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.134	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0427	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0738	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.127	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.966	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.186	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.68	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.391	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.286	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.311	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0848	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.218	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0498	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0758	1.05	PQL	ng/Kg	
	OCDD	JB	2.40	10.5	PQL	ng/Kg	
	OCDF	JB	0.192	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 **Laboratory: LL**

EDD Filename: DX099_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-079-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.559	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0435	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0140	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0155	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0150	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0345	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0203	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0437	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0221	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0348	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0211	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0121	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0498	5.69	PQL	ng/Kg	
	OCDD	JB	1.14	11.4	PQL	ng/Kg	
	OCDF	JB	0.0709	11.4	PQL	ng/Kg	
SL-079-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.758	5.80	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.122	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0482	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0872	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.167	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.111	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.139	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.128	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.107	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.202	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.250	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0910	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.237	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0437	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0841	1.16	PQL	ng/Kg	
	OCDD	JB	3.23	11.6	PQL	ng/Kg	
	OCDF	JB	0.203	11.6	PQL	ng/Kg	
SL-122-SA8N-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	1.02	5.38	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.229	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0335	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0779	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.165	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.128	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.122	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.176	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0967	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.155	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.248	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0862	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.245	5.38	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0932	1.08	PQL	ng/Kg	
	OCDD	JB	7.69	10.8	PQL	ng/Kg	
	OCDF	JB	0.341	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX099 | Laboratory: LL

EDD Filename: DX099_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.07	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.360	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0787	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.164	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.227	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.152	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.219	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.165	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.167	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.280	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.338	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.137	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.279	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0477	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0914	1.15	PQL	ng/Kg	
	OCDF	JB	0.570	11.5	PQL	ng/Kg	
SL-133-SA8N-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	1.54	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.375	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0678	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0480	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.102	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0711	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0497	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.123	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0592	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0196	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.228	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0439	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0910	5.70	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.244	1.14	PQL	ng/Kg	
	OCDF	JB	0.886	11.4	PQL	ng/Kg	
SL-140-SA8N-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	5.03	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.287	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0804	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.206	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.150	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.318	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0935	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.372	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.217	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.167	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.184	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0687	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.129	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0696	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0629	1.13	PQL	ng/Kg	
	OCDF	JB	0.600	11.3	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX100

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Jun-2011	SL-025-SA5DN-SB-4.0-5.0	6310790	N	METHOD	1613B	IV
08-Jun-2011	SL-025-SA5DN-SB-23.0-24.0	6310791	N	METHOD	1613B	IV
08-Jun-2011	SL-076-SA8N-SB-4.0-5.0	6310796	N	METHOD	1613B	IV
08-Jun-2011	SL-076-SA8N-SB-4.0-5.0MS	6310797	MS	METHOD	1613B	IV
08-Jun-2011	SL-076-SA8N-SB-4.0-5.0MSD	6310798	MSD	METHOD	1613B	IV
08-Jun-2011	DUP10-SA8N-QC-060811	6310803	FD	METHOD	1613B	IV
08-Jun-2011	SL-023-SA5DN-SB-4.0-5.0	6310788	N	METHOD	1613B	IV
08-Jun-2011	SL-023-SA5DN-SB-20.0-21.0	6310789	N	METHOD	1613B	IV
08-Jun-2011	EB16-SA8N-SB-060811	6310804	EB	METHOD	1613B	IV
08-Jun-2011	SL-076-SA8N-SB-7.5-8.5	6310799	N	METHOD	1613B	IV
08-Jun-2011	SL-028-SA5DN-SB-4.0-5.0	6310792	N	METHOD	1613B	IV
08-Jun-2011	SL-028-SA5DN-SB-11.5-12.5	6310793	N	METHOD	1613B	IV
08-Jun-2011	SL-106-SA8N-SB-2.5-3.5	6310800	N	METHOD	1613B	IV
08-Jun-2011	SL-109-SA8N-SB-4.0-5.0	6310801	N	METHOD	1613B	IV
08-Jun-2011	SL-051-SA5DN-SB-4.0-5.0	6310794	N	METHOD	1613B	IV
08-Jun-2011	SL-051-SA5DN-SB-14.0-15.0	6310795	N	METHOD	1613B	IV
08-Jun-2011	SL-109-SA8N-SB-9.0-10.0	6310802	N	METHOD	1613B	IV
09-Jun-2011	SL-039-SA5DN-SB-4.0-5.0	6312187	N	METHOD	1613B	IV
09-Jun-2011	SL-039-SA5DN-SB-11.5-12.5	6312188	N	METHOD	1613B	IV
09-Jun-2011	SL-038-SA5DN-SB-4.0-5.0	6312185	N	METHOD	1613B	IV
09-Jun-2011	SL-038-SA5DN-SB-10.5-11.5	6312186	N	METHOD	1613B	IV
09-Jun-2011	SL-037-SA5DN-SB-4.0-5.0	6312183	N	METHOD	1613B	IV
09-Jun-2011	SL-037-SA5DN-SB-11.5-12.5	6312184	N	METHOD	1613B	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB16-SA8N-SB-060811 *Collected:* 6/8/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	6.00	JB	0.396	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.22	JB	0.163	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.343	JB	0.186	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.315	JBQ	0.266	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.368	JBQ	0.237	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.778	JBQ	0.279	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.532	JBQ	0.412	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.362	JBQ	0.251	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.436	JBQ	0.223	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.947	JBQ	0.226	MDL	10.1	PQL	pg/L	U	B
OCDD	12.4	JBQ	0.395	MDL	20.1	PQL	pg/L	U	B
OCDF	1.17	JBQ	0.487	MDL	20.1	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP10-SA8N-QC-060811 *Collected:* 6/8/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.70	JB	0.0407	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JB	0.0128	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0424	JBQ	0.0182	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0227	U	0.0227	MDL	5.53	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.550	JBQ	0.0251	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0801	JBQ	0.0235	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.156	JB	0.0231	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0803	JB	0.0218	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.106	JB	0.0271	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0192	JB	0.0191	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	1.96	JB	0.0420	MDL	5.53	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0353	JBQ	0.0249	MDL	5.53	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0394	U	0.0394	MDL	5.53	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDD	0.0158	U	0.0158	MDL	1.11	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.514	JB	0.0783	MDL	1.11	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP10-SA8N-QC-060811 *Collected:* 6/8/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.338	JB	0.0347	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-023-SA5DN-SB-20.0-21.0 *Collected:* 6/8/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.342	JB	0.0242	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0303	JBQ	0.00780	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0160	JBQ	0.0145	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0225	JB	0.00879	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0387	JB	0.0160	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0163	JBQ	0.00747	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0579	JBQ	0.0154	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0394	JBQ	0.00934	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0136	JBQ	0.00758	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0350	JBQ	0.00758	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0368	JB	0.00758	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0220	JQ	0.0152	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	0.693	JB	0.0291	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.100	JBQ	0.0342	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-023-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.02	JB	0.0333	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.100	JB	0.00896	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0197	JB	0.0158	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0242	JBQ	0.0193	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0947	JB	0.0127	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.127	JBQ	0.0196	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0294	JB	0.0108	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.176	JB	0.0183	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.228	JB	0.0146	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0528	JB	0.0145	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.132	JB	0.0107	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0385	JBQ	0.0118	MDL	5.48	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-023-SA5DN-SB-4.0-5.0** ***Collected:*** **6/8/2011 11:15:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0753	JB	0.0109	MDL	5.48	PQL	ng/Kg	U	B
OCDF	0.328	JB	0.0329	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: **SL-025-SA5DN-SB-23.0-24.0** ***Collected:*** **6/8/2011 9:40:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.339	JB	0.0228	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0238	JBQ	0.00644	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0227	JBQ	0.0101	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0133	JBQ	0.00666	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0294	JBQ	0.0115	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.00816	JBQ	0.00577	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0351	JBQ	0.0110	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0210	JB	0.00655	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0182	JBQ	0.0151	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0131	JBQ	0.00677	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0470	JBQ	0.00677	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0244	JB	0.0153	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.807	JB	0.0293	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.0616	JB	0.0311	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: **SL-025-SA5DN-SB-4.0-5.0** ***Collected:*** **6/8/2011 9:30:00 AM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.07	JB	0.0354	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.0667	JB	0.00881	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0171	JB	0.0153	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0192	JBQ	0.0173	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.103	JB	0.0174	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0118	JBQ	0.00881	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.148	JB	0.0167	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.199	JB	0.0114	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0194	JBQ	0.0171	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0372	JBQ	0.00836	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0103	JBQ	0.00983	MDL	5.57	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-025-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0361	JBQ	0.00825	MDL	5.57	PQL	ng/Kg	U	B
OCDF	0.176	JB	0.0359	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-028-SA5DN-SB-11.5-12.5 *Collected:* 6/8/2011 2:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.65	JB	0.0615	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.453	JB	0.0286	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.230	JB	0.0376	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0541	JB	0.0344	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.418	JB	0.0302	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.153	JB	0.0361	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.117	JB	0.0271	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.187	JB	0.0346	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.211	JBQ	0.0268	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.140	JBQ	0.0181	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.129	JB	0.0247	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.03	JB	0.0180	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.120	J	0.0690	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	1.34	JB	0.0522	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-028-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 2:10:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.80	JB	0.0678	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.390	JB	0.0284	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0992	JBQ	0.0484	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0711	JBQ	0.0354	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0342	JBQ	0.0274	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.212	JB	0.0370	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0597	JBQ	0.0246	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.284	JB	0.0345	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.327	JB	0.0327	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0653	JBQ	0.0230	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.148	JBQ	0.0151	MDL	5.81	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory:** LL

EDD Filename: DX100_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-028-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 2:10:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0600	JBQ	0.0265	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.156	JB	0.0160	MDL	5.81	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0418	J	0.0260	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	1.11	JB	0.0629	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-037-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.379	JB	0.0287	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0437	JBQ	0.00804	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0423	JBQ	0.0159	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0355	JBQ	0.0152	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0366	JBQ	0.00961	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0448	JBQ	0.0158	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0401	JB	0.00771	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0548	JBQ	0.0147	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0510	JB	0.0112	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0480	JBQ	0.0130	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0850	JBQ	0.00682	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0319	JB	0.00905	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0796	JBQ	0.00715	MDL	5.50	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0317	JQ	0.0132	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.856	JBQ	0.0331	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.0806	JBQ	0.0451	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.63	JB	0.0449	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.320	JB	0.0174	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0577	JB	0.0334	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0470	JB	0.0297	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.147	JBQ	0.0276	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.335	JBQ	0.0318	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0921	JB	0.0230	MDL	5.97	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory:** LL

EDD Filename: DX100_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-037-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.419	JB	0.0302	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.571	JB	0.0319	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.101	JB	0.0235	MDL	5.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.338	JB	0.0245	MDL	5.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0651	JB	0.0244	MDL	5.97	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.131	JB	0.0262	MDL	5.97	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0502	JBQ	0.0146	MDL	1.19	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0623	J	0.0325	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	0.760	JB	0.0548	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-038-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 2:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.85	JB	0.0301	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0806	JBQ	0.0117	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0685	JB	0.0155	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0213	JBQ	0.0118	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0359	JBQ	0.0129	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0251	JB	0.00852	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0191	JBQ	0.0115	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0365	JB	0.00664	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0186	JBQ	0.00675	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0368	JB	0.00708	MDL	5.45	PQL	ng/Kg	U	B
OCDF	0.251	JBQ	0.0358	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-038-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 2:10:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.73	JB	0.0492	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.189	JB	0.0367	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.126	JBQ	0.0384	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.770	JBQ	0.0733	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.940	JB	0.0415	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.211	JB	0.0740	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.801	JB	0.0381	MDL	5.54	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-038-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 2:10:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.683	JB	0.0350	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.190	JB	0.0282	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.139	JB	0.0302	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.515	JB	0.0266	MDL	5.54	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0316	JB	0.0154	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.207	JQ	0.0423	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	6.00	JB	0.0333	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-11.5-12.5 *Collected:* 6/9/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.937	JB	0.0199	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0849	JBQ	0.0405	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0361	JBQ	0.0347	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0298	JB	0.0238	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.326	JB	0.0367	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0577	JB	0.0186	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.107	JB	0.0360	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0380	JBQ	0.0254	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0180	JBQ	0.00726	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0465	JBQ	0.0203	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0558	JB	0.00760	MDL	5.62	PQL	ng/Kg	U	B
OCDF	2.81	JB	0.0360	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.13	JB	0.0717	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.03	JB	0.0995	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.819	JB	0.0935	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.716	JB	0.0776	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.54	JB	0.0964	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.576	JB	0.0624	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.617	JB	0.0355	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.159	JB	0.0294	MDL	5.77	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory:** LL

EDD Filename: DX100_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-039-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 11:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.412	JB	0.0482	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.657	JB	0.0303	MDL	5.77	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0267	JBQ	0.0119	MDL	1.15	PQL	ng/Kg	U	B
OCDD	6890	EB	0.175	MDL	11.5	PQL	ng/Kg	J	*XI

Sample ID: SL-051-SA5DN-SB-14.0-15.0 *Collected:* 6/8/2011 3:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.380	JB	0.0320	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0430	JBQ	0.00913	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0474	JB	0.0164	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0345	JBQ	0.0184	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0609	JBQ	0.0131	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0671	JB	0.0189	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0670	JB	0.0110	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0768	JB	0.0182	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0562	JBQ	0.0148	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0837	JB	0.0162	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.105	JB	0.00822	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0433	JB	0.0124	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.103	JB	0.00845	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0349	JBQ	0.0151	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0307	JQ	0.0137	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.937	JB	0.0439	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.133	JB	0.0424	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-051-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 3:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.701	JBQ	0.0507	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0664	JBQ	0.0128	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0267	JBQ	0.0221	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0455	JBQ	0.0221	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0508	JBQ	0.0145	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.103	JB	0.0221	MDL	5.65	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-051-SA5DN-SB-4.0-5.0 *Collected:* 6/8/2011 3:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0517	JB	0.0126	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.130	JB	0.0211	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.173	JBQ	0.0176	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0777	JB	0.0163	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0958	JB	0.00839	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0912	JBQ	0.00873	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0220	JB	0.0149	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0204	J	0.0146	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	4.11	JB	0.0350	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.105	JB	0.0541	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-076-SA8N-SB-4.0-5.0 *Collected:* 6/8/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.44	JB	0.0386	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.180	JBQ	0.0141	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0419	JBQ	0.0172	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0482	JBQ	0.0195	MDL	5.54	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.593	JB	0.0272	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.106	JB	0.0194	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0805	JBQ	0.0238	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.129	JB	0.0186	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.104	JBQ	0.0210	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0871	JBQ	0.0191	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.167	JBQ	0.0218	MDL	5.54	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0621	JBQ	0.0176	MDL	5.54	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.369	JB	0.0212	MDL	5.54	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0291	JBQ	0.0140	MDL	1.11	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.118	J	0.0499	MDL	1.11	PQL	ng/Kg	J	Z, FD
OCDF	0.264	JBQ	0.0414	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-076-SA8N-SB-7.5-8.5 *Collected:* 6/8/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.474	JB	0.0382	MDL	5.64	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 Laboratory: LL

EDD Filename: DX100_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-076-SA8N-SB-7.5-8.5 *Collected:* 6/8/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.0539	JB	0.0114	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0259	JB	0.0174	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0307	JBQ	0.00944	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0336	JB	0.0185	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0262	JBQ	0.00875	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0362	JBQ	0.0171	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0447	JB	0.0108	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0397	JBQ	0.0147	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.115	JBQ	0.00978	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0131	JBQ	0.00886	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0522	JBQ	0.00921	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0146	J	0.0139	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	1.64	JB	0.0409	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.132	JBQ	0.0394	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-106-SA8N-SB-2.5-3.5 *Collected:* 6/8/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.555	JB	0.0391	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0405	JB	0.0106	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0200	JBQ	0.0164	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0196	JBQ	0.00958	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0222	JB	0.00878	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0492	JB	0.0159	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0140	JBQ	0.00982	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0136	JBQ	0.00774	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0193	JBQ	0.00935	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0495	JBQ	0.00762	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0172	JQ	0.0144	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	1.32	JBQ	0.0367	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.140	JB	0.0411	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory:** LL

EDD Filename: DX100_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-109-SA8N-SB-4.0-5.0 *Collected:* 6/8/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.346	JB	0.0227	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0326	JBQ	0.00734	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0271	JBQ	0.0133	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0193	JB	0.0114	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0262	JBQ	0.00906	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0263	JBQ	0.0119	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0144	JBQ	0.00757	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0412	JB	0.0114	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0172	JB	0.00894	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0127	JB	0.00654	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0340	JB	0.00700	MDL	5.71	PQL	ng/Kg	U	B
OCDD	1.09	JB	0.0286	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.0772	JB	0.0321	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-109-SA8N-SB-9.0-10.0 *Collected:* 6/8/2011 3:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.467	JB	0.0282	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0327	JBQ	0.00867	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0233	JB	0.0129	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0225	JBQ	0.0140	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0326	JBQ	0.0134	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0169	JBQ	0.00821	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0144	JBQ	0.0136	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0141	JBQ	0.00636	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.00726	JB	0.00705	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0430	JBQ	0.00601	MDL	5.73	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0123	JB	0.0116	MDL	1.15	PQL	ng/Kg	U	B
OCDD	1.14	JB	0.0287	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.0856	JBQ	0.0353	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and CRQLs
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX100

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1610B372350	6/14/2011 11:50:00 PM	1,2,3,4,6,7,8-HPCDD	5.46 pg/L	EB16-SA8N-SB-060811
		1,2,3,4,6,7,8-HPCDF	1.68 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.16 pg/L	
		1,2,3,4,7,8-HxCDD	0.701 pg/L	
		1,2,3,4,7,8-HXCDF	0.730 pg/L	
		1,2,3,6,7,8-HXCDD	0.697 pg/L	
		1,2,3,6,7,8-HXCDF	0.764 pg/L	
		1,2,3,7,8,9-HXCDD	1.10 pg/L	
		1,2,3,7,8,9-HXCDF	0.850 pg/L	
		1,2,3,7,8-PECDD	0.608 pg/L	
		1,2,3,7,8-PECDF	0.737 pg/L	
		2,3,4,6,7,8-HXCDF	0.683 pg/L	
		2,3,4,7,8-PECDF	0.940 pg/L	
		2,3,7,8-TCDD	0.359 pg/L	
		OCDD	13.0 pg/L	
		OCDF	5.00 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB16-SA8N-SB-060811(RES)	1,2,3,4,6,7,8-HPCDD	6.00 pg/L	6.00U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,4,6,7,8-HPCDF	1.22 pg/L	1.22U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,4,7,8,9-HPCDF	0.343 pg/L	0.343U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,4,7,8-HxCDD	0.315 pg/L	0.315U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,4,7,8-HXCDF	0.368 pg/L	0.368U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,7,8,9-HXCDD	0.778 pg/L	0.778U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,7,8-PECDD	0.532 pg/L	0.532U pg/L
EB16-SA8N-SB-060811(RES)	1,2,3,7,8-PECDF	0.362 pg/L	0.362U pg/L
EB16-SA8N-SB-060811(RES)	2,3,4,6,7,8-HXCDF	0.436 pg/L	0.436U pg/L
EB16-SA8N-SB-060811(RES)	2,3,4,7,8-PECDF	0.947 pg/L	0.947U pg/L
EB16-SA8N-SB-060811(RES)	OCDD	12.4 pg/L	12.4U pg/L
EB16-SA8N-SB-060811(RES)	OCDF	1.17 pg/L	1.17U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1730B372038	6/24/2011 8:38:00 PM	1,2,3,4,6,7,8-HPCDD	0.396 ng/Kg	SL-023-SA5DN-SB-20.0-21.0
		1,2,3,4,6,7,8-HPCDF	0.0675 ng/Kg	SL-023-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0845 ng/Kg	SL-025-SA5DN-SB-23.0-24.0
		1,2,3,4,7,8-HxCDD	0.0157 ng/Kg	SL-025-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0434 ng/Kg	SL-028-SA5DN-SB-11.5-12.5
		1,2,3,6,7,8-HXCDD	0.0303 ng/Kg	SL-028-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0150 ng/Kg	SL-037-SA5DN-SB-11.5-12.5
		1,2,3,7,8,9-HXCDD	0.0403 ng/Kg	SL-037-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0235 ng/Kg	SL-038-SA5DN-SB-10.5-11.5
		1,2,3,7,8-PECDD	0.0170 ng/Kg	SL-038-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0266 ng/Kg	SL-039-SA5DN-SB-11.5-12.5
		2,3,4,6,7,8-HXCDF	0.0249 ng/Kg	SL-039-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0451 ng/Kg	SL-051-SA5DN-SB-14.0-15.0
		2,3,7,8-TCDD	0.0163 ng/Kg	SL-051-SA5DN-SB-4.0-5.0
		OCDD	0.888 ng/Kg	SL-076-SA8N-SB-4.0-5.0
		OCDF	0.324 ng/Kg	SL-109-SA8N-SB-4.0-5.0
BLK1780B371754	6/28/2011 5:54:00 PM	1,2,3,4,6,7,8-HPCDD	0.357 ng/Kg	DUP10-SA8N-QC-060811
		1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	SL-076-SA8N-SB-7.5-8.5
		1,2,3,4,7,8,9-HPCDF	0.0781 ng/Kg	SL-106-SA8N-SB-2.5-3.5
		1,2,3,4,7,8-HxCDD	0.0572 ng/Kg	SL-109-SA8N-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0465 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0570 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0500 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0780 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0771 ng/Kg	
		1,2,3,7,8-PECDD	0.0470 ng/Kg	
		1,2,3,7,8-PECDF	0.0379 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0295 ng/Kg	
		2,3,4,7,8-PECDF	0.0563 ng/Kg	
		2,3,7,8-TCDF	0.0118 ng/Kg	
		OCDD	0.811 ng/Kg	
		OCDF	0.234 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP10-SA8N-QC-060811(RES)	1,2,3,4,6,7,8-HPCDD	1.70 ng/Kg	1.70U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,4,7,8,9-HPCDF	0.0424 ng/Kg	0.0424U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,6,7,8-HXCDD	0.0801 ng/Kg	0.0801U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,6,7,8-HXCDF	0.156 ng/Kg	0.156U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,7,8,9-HXCDD	0.0803 ng/Kg	0.0803U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,7,8,9-HXCDF	0.106 ng/Kg	0.106U ng/Kg
DUP10-SA8N-QC-060811(RES)	1,2,3,7,8-PECDD	0.0192 ng/Kg	0.0192U ng/Kg
DUP10-SA8N-QC-060811(RES)	2,3,4,6,7,8-HXCDF	0.0353 ng/Kg	0.0353U ng/Kg
DUP10-SA8N-QC-060811(RES)	OCDF	0.338 ng/Kg	0.338U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,4,6,7,8-HPCDD	0.342 ng/Kg	0.342U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0160 ng/Kg	0.0160U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,4,7,8-HXCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,6,7,8-HXCDD	0.0387 ng/Kg	0.0387U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,6,7,8-HXCDF	0.0163 ng/Kg	0.0163U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,7,8,9-HXCDD	0.0579 ng/Kg	0.0579U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,7,8,9-HXCDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	1,2,3,7,8-PECDF	0.0136 ng/Kg	0.0136U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	2,3,4,6,7,8-HXCDF	0.0350 ng/Kg	0.0350U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	2,3,4,7,8-PECDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	OCDD	0.693 ng/Kg	0.693U ng/Kg
SL-023-SA5DN-SB-20.0-21.0(RES)	OCDF	0.100 ng/Kg	0.100U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.100 ng/Kg	0.100U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0197 ng/Kg	0.0197U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0242 ng/Kg	0.0242U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0947 ng/Kg	0.0947U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.127 ng/Kg	0.127U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.176 ng/Kg	0.176U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0528 ng/Kg	0.0528U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.132 ng/Kg	0.132U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0385 ng/Kg	0.0385U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0753 ng/Kg	0.0753U ng/Kg
SL-023-SA5DN-SB-4.0-5.0(RES)	OCDF	0.328 ng/Kg	0.328U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,4,6,7,8-HPCDD	0.339 ng/Kg	0.339U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0238 ng/Kg	0.0238U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0227 ng/Kg	0.0227U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,4,7,8-HXCDF	0.0133 ng/Kg	0.0133U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,6,7,8-HXCDD	0.0294 ng/Kg	0.0294U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,6,7,8-HXCDF	0.00816 ng/Kg	0.00816U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,7,8,9-HXCDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,7,8,9-HXCDF	0.0210 ng/Kg	0.0210U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,7,8-PECDD	0.0182 ng/Kg	0.0182U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	1,2,3,7,8-PECDF	0.0131 ng/Kg	0.0131U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	2,3,4,7,8-PECDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	2,3,7,8-TCDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	OCDD	0.807 ng/Kg	0.807U ng/Kg
SL-025-SA5DN-SB-23.0-24.0(RES)	OCDF	0.0616 ng/Kg	0.0616U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0171 ng/Kg	0.0171U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0192 ng/Kg	0.0192U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.103 ng/Kg	0.103U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0118 ng/Kg	0.0118U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.148 ng/Kg	0.148U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0194 ng/Kg	0.0194U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0372 ng/Kg	0.0372U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0103 ng/Kg	0.0103U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-025-SA5DN-SB-4.0-5.0(RES)	OCDF	0.176 ng/Kg	0.176U ng/Kg
SL-028-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-028-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HxCDD	0.0541 ng/Kg	0.0541U ng/Kg
SL-028-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDD	0.187 ng/Kg	0.187U ng/Kg
SL-028-SA5DN-SB-11.5-12.5(RES)	OCDF	1.34 ng/Kg	1.34U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0992 ng/Kg	0.0992U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0711 ng/Kg	0.0711U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0342 ng/Kg	0.0342U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0653 ng/Kg	0.0653U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0600 ng/Kg	0.0600U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.156 ng/Kg	0.156U ng/Kg
SL-028-SA5DN-SB-4.0-5.0(RES)	OCDF	1.11 ng/Kg	1.11U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDD	0.379 ng/Kg	0.379U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0437 ng/Kg	0.0437U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HxCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HXCDF	0.0366 ng/Kg	0.0366U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDD	0.0448 ng/Kg	0.0448U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDF	0.0401 ng/Kg	0.0401U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDD	0.0548 ng/Kg	0.0548U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDF	0.0510 ng/Kg	0.0510U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8-PECDD	0.0480 ng/Kg	0.0480U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8-PECDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	2,3,4,6,7,8-HXCDF	0.0319 ng/Kg	0.0319U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	2,3,4,7,8-PECDF	0.0796 ng/Kg	0.0796U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	OCDD	0.856 ng/Kg	0.856U ng/Kg
SL-037-SA5DN-SB-11.5-12.5(RES)	OCDF	0.0806 ng/Kg	0.0806U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.320 ng/Kg	0.320U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0577 ng/Kg	0.0577U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0470 ng/Kg	0.0470U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-037-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0651 ng/Kg	0.0651U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.131 ng/Kg	0.131U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0502 ng/Kg	0.0502U ng/Kg
SL-037-SA5DN-SB-4.0-5.0(RES)	OCDF	0.760 ng/Kg	0.760U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,4,6,7,8-HPCDD	1.85 ng/Kg	1.85U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0806 ng/Kg	0.0806U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDD	0.0685 ng/Kg	0.0685U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDF	0.0213 ng/Kg	0.0213U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8,9-HXCDD	0.0359 ng/Kg	0.0359U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8,9-HXCDF	0.0251 ng/Kg	0.0251U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8-PECDD	0.0191 ng/Kg	0.0191U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8-PECDF	0.0365 ng/Kg	0.0365U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	2,3,4,6,7,8-HXCDF	0.0186 ng/Kg	0.0186U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	2,3,4,7,8-PECDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-038-SA5DN-SB-10.5-11.5(RES)	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-038-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.189 ng/Kg	0.189U ng/Kg
SL-038-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0316 ng/Kg	0.0316U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0849 ng/Kg	0.0849U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HxCDD	0.0361 ng/Kg	0.0361U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HXCDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDF	0.0577 ng/Kg	0.0577U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDD	0.107 ng/Kg	0.107U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDF	0.0380 ng/Kg	0.0380U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8-PECDF	0.0180 ng/Kg	0.0180U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	2,3,4,6,7,8-HXCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-039-SA5DN-SB-11.5-12.5(RES)	2,3,4,7,8-PECDF	0.0558 ng/Kg	0.0558U ng/Kg
SL-039-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0267 ng/Kg	0.0267U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,6,7,8-HPCDD	0.380 ng/Kg	0.380U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0474 ng/Kg	0.0474U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,7,8-HxCDD	0.0345 ng/Kg	0.0345U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,4,7,8-HXCDF	0.0609 ng/Kg	0.0609U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,6,7,8-HXCDD	0.0671 ng/Kg	0.0671U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,6,7,8-HXCDF	0.0670 ng/Kg	0.0670U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8,9-HXCDD	0.0768 ng/Kg	0.0768U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8,9-HXCDF	0.0562 ng/Kg	0.0562U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8-PECDD	0.0837 ng/Kg	0.0837U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	1,2,3,7,8-PECDF	0.105 ng/Kg	0.105U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	2,3,4,6,7,8-HXCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	2,3,4,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	2,3,7,8-TCDD	0.0349 ng/Kg	0.0349U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	OCDD	0.937 ng/Kg	0.937U ng/Kg
SL-051-SA5DN-SB-14.0-15.0(RES)	OCDF	0.133 ng/Kg	0.133U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.701 ng/Kg	0.701U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0455 ng/Kg	0.0455U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0508 ng/Kg	0.0508U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.103 ng/Kg	0.103U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0517 ng/Kg	0.0517U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.130 ng/Kg	0.130U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0777 ng/Kg	0.0777U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0958 ng/Kg	0.0958U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0912 ng/Kg	0.0912U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0220 ng/Kg	0.0220U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	OCDD	4.11 ng/Kg	4.11U ng/Kg
SL-051-SA5DN-SB-4.0-5.0(RES)	OCDF	0.105 ng/Kg	0.105U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.44 ng/Kg	1.44U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.180 ng/Kg	0.180U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0482 ng/Kg	0.0482U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.106 ng/Kg	0.106U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.129 ng/Kg	0.129U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0291 ng/Kg	0.0291U ng/Kg
SL-076-SA8N-SB-4.0-5.0(RES)	OCDF	0.264 ng/Kg	0.264U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.474 ng/Kg	0.474U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0539 ng/Kg	0.0539U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0259 ng/Kg	0.0259U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,4,7,8-HXCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.0336 ng/Kg	0.0336U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.0262 ng/Kg	0.0262U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0362 ng/Kg	0.0362U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8-PECDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.115 ng/Kg	0.115U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.0131 ng/Kg	0.0131U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	OCDD	1.64 ng/Kg	1.64U ng/Kg
SL-076-SA8N-SB-7.5-8.5(RES)	OCDF	0.132 ng/Kg	0.132U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.555 ng/Kg	0.555U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0405 ng/Kg	0.0405U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0200 ng/Kg	0.0200U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0222 ng/Kg	0.0222U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0492 ng/Kg	0.0492U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0140 ng/Kg	0.0140U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0136 ng/Kg	0.0136U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0193 ng/Kg	0.0193U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	OCDD	1.32 ng/Kg	1.32U ng/Kg
SL-106-SA8N-SB-2.5-3.5(RES)	OCDF	0.140 ng/Kg	0.140U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.346 ng/Kg	0.346U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0271 ng/Kg	0.0271U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0193 ng/Kg	0.0193U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0262 ng/Kg	0.0262U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0263 ng/Kg	0.0263U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0144 ng/Kg	0.0144U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0412 ng/Kg	0.0412U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0172 ng/Kg	0.0172U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0127 ng/Kg	0.0127U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0340 ng/Kg	0.0340U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg
SL-109-SA8N-SB-4.0-5.0(RES)	OCDF	0.0772 ng/Kg	0.0772U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.467 ng/Kg	0.467U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0327 ng/Kg	0.0327U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0233 ng/Kg	0.0233U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0225 ng/Kg	0.0225U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0326 ng/Kg	0.0326U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0169 ng/Kg	0.0169U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0144 ng/Kg	0.0144U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0141 ng/Kg	0.0141U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.00726 ng/Kg	0.00726U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0123 ng/Kg	0.0123U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	OCDD	1.14 ng/Kg	1.14U ng/Kg
SL-109-SA8N-SB-9.0-10.0(RES)	OCDF	0.0856 ng/Kg	0.0856U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-076-SA8N-SB-4.0-5.0	DUP10-SA8N-QC-060811			
MOISTURE	11.4	11.6	2		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-076-SA8N-SB-4.0-5.0	DUP10-SA8N-QC-060811			
1,2,3,4,6,7,8-HPCDD	1.44	1.70	17	50.00	
1,2,3,4,6,7,8-HPCDF	0.180	0.185	3	50.00	
1,2,3,4,7,8,9-HPCDF	0.0419	0.0424	1	50.00	
1,2,3,4,7,8-HXCDF	0.593	0.550	8	50.00	
1,2,3,6,7,8-HXCDD	0.106	0.0801	28	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDD	0.129	0.0803	47	50.00	
1,2,3,7,8,9-HXCDF	0.104	0.106	2	50.00	
OCDD	12.7	16.0	23	50.00	
OCDF	0.264	0.338	25	50.00	
1,2,3,4,7,8-HxCDD	0.0482	5.53 U	200	50.00	
1,2,3,6,7,8-HXCDF	0.0805	0.156	64	50.00	
1,2,3,7,8-PECDD	0.0871	0.0192	128	50.00	
1,2,3,7,8-PECDF	0.167	1.96	169	50.00	J(all detects)
2,3,4,6,7,8-HXCDF	0.0621	0.0353	55	50.00	UJ(all non-detects)
2,3,4,7,8-PECDF	0.369	5.53 U	200	50.00	
2,3,7,8-TCDD	0.0291	1.11 U	200	50.00	
2,3,7,8-TCDF	0.118	0.514	125	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB16-SA8N-SB-060811	1,2,3,4,6,7,8-HPCDD	JB	6.00	10.1	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.22	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.343	10.1	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.315	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.368	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.778	10.1	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.532	10.1	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.362	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.436	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.947	10.1	PQL	pg/L	
	OCDD	JBQ	12.4	20.1	PQL	pg/L	
	OCDF	JBQ	1.17	20.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA8N-QC-060811	1,2,3,4,6,7,8-HPCDD	JB	1.70	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.185	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0424	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.550	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0801	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.156	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0803	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.106	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0192	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.96	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0353	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.514	1.11	PQL	ng/Kg	
	OCDF	JB	0.338	11.1	PQL	ng/Kg	
SL-023-SA5DN-SB-20.0-21.0	1,2,3,4,6,7,8-HPCDD	JB	0.342	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0303	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0160	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0225	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0387	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0163	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0579	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0394	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0136	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0350	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0368	5.44	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0220	1.09	PQL	ng/Kg	
	OCDD	JB	0.693	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.100	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.02	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.100	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0197	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0242	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0947	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.127	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0294	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.176	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.228	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0528	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.132	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0385	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0753	5.48	PQL	ng/Kg	
	OCDF	JB	0.328	11.0	PQL	ng/Kg	
SL-025-SA5DN-SB-23.0-24.0	1,2,3,4,6,7,8-HPCDD	JB	0.339	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0238	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0227	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0133	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0294	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.00816	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0351	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0210	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0182	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0131	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0470	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0244	1.10	PQL	ng/Kg	
	OCDD	JB	0.807	11.0	PQL	ng/Kg	
	OCDF	JB	0.0616	11.0	PQL	ng/Kg	
SL-025-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.07	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0667	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0171	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0192	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.103	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0118	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.148	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.199	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0194	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0372	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0103	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0361	5.57	PQL	ng/Kg	
	OCDF	JB	0.176	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-028-SA5DN-SB-11.5-12.5	1,2,3,4,6,7,8-HPCDD	JB	4.65	5.37	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.453	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.230	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0541	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.418	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.153	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.117	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.187	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.211	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.140	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.129	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.03	5.37	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.120	1.07	PQL	ng/Kg	
	OCDF	JB	1.34	10.7	PQL	ng/Kg	
SL-028-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.80	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.390	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0992	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0711	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0342	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.212	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0597	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.284	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.327	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0653	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.148	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0600	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.156	5.81	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0418	1.16	PQL	ng/Kg	
	OCDF	JB	1.11	11.6	PQL	ng/Kg	
SL-037-SA5DN-SB-11.5-12.5	1,2,3,4,6,7,8-HPCDD	JB	0.379	5.50	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0437	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0423	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0355	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0366	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0448	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0401	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0548	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0510	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0480	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0850	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0319	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0796	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0317	1.10	PQL	ng/Kg	
	OCDD	JBQ	0.856	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.0806	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.63	5.97	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.320	5.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0577	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0470	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.147	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.335	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0921	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.419	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.571	5.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.101	5.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.338	5.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0651	5.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.131	5.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0502	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0623	1.19	PQL	ng/Kg	
	OCDF	JB	0.760	11.9	PQL	ng/Kg	
SL-038-SA5DN-SB-10.5-11.5	1,2,3,4,6,7,8-HPCDD	JB	1.85	5.45	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0806	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0685	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0213	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0359	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0251	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0191	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0365	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0186	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0368	5.45	PQL	ng/Kg	
	OCDF	JBQ	0.251	10.9	PQL	ng/Kg	
SL-038-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.73	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.189	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.126	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.770	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.940	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.211	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.801	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.683	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.190	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.139	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.515	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0316	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.207	1.11	PQL	ng/Kg	
	OCDF	JB	6.00	11.1	PQL	ng/Kg	
SL-039-SA5DN-SB-11.5-12.5	1,2,3,4,6,7,8-HPCDF	JB	0.937	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0849	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0361	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0298	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.326	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0577	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.107	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0380	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0180	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0465	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0558	5.62	PQL	ng/Kg	
	OCDF	JB	2.81	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.13	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.03	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.819	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.716	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.54	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.576	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.617	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.159	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.412	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.657	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0267	1.15	PQL	ng/Kg	
SL-051-SA5DN-SB-14.0-15.0	1,2,3,4,6,7,8-HPCDD	JB	0.380	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0430	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0474	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0345	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0609	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0671	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0670	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0768	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0562	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0837	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.105	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0433	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.103	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0349	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0307	1.10	PQL	ng/Kg	
	OCDD	JB	0.937	11.0	PQL	ng/Kg	
	OCDF	JB	0.133	11.0	PQL	ng/Kg	
SL-051-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.701	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0664	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0267	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0455	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0508	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.103	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0517	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.130	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.173	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0777	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0958	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0912	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0220	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0204	1.13	PQL	ng/Kg	
	OCDD	JB	4.11	11.3	PQL	ng/Kg	
	OCDF	JB	0.105	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.44	5.54	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.180	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0419	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0482	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.593	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.106	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0805	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.129	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.104	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0871	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.167	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0621	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.369	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0291	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.118	1.11	PQL	ng/Kg	
	OCDF	JBQ	0.264	11.1	PQL	ng/Kg	
SL-076-SA8N-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JB	0.474	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0539	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0259	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0307	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0336	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0262	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0362	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0447	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0397	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.115	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0131	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0522	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0146	1.13	PQL	ng/Kg	
	OCDD	JB	1.64	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.132	11.3	PQL	ng/Kg	
SL-106-SA8N-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.555	5.74	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0405	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0200	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0196	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0222	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0492	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0140	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0136	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0193	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0495	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0172	1.15	PQL	ng/Kg	
	OCDD	JBQ	1.32	11.5	PQL	ng/Kg	
	OCDF	JB	0.140	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX100 **Laboratory: LL**

EDD Filename: DX100_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.346	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0326	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0271	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0193	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0262	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0263	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0144	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0412	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0172	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0127	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0340	5.71	PQL	ng/Kg	
	OCDD	JB	1.09	11.4	PQL	ng/Kg	
	OCDF	JB	0.0772	11.4	PQL	ng/Kg	
SL-109-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.467	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0327	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0233	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0225	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0326	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0169	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0144	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0141	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.00726	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0430	5.73	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0123	1.15	PQL	ng/Kg	
	OCDD	JB	1.14	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.0856	11.5	PQL	ng/Kg	

Enclosure II

EPA Level IV Validation Reports

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Santa Susana Field Laboratory

Collection Date: June 8, 2011

LDC Report Date: September 26, 2011

Matrix: Soil/Water

Parameters: Dioxins/Dibenzofurans

Validation Level: Level IV

Laboratory: Lancaster Laboratories

Sample Delivery Group (SDG): DX100

Sample Identification

SL-023-SA5DN-SB-4.0-5.0
SL-023-SA5DN-SB-20.0-21.0
SL-025-SA5DN-SB-4.0-5.0
SL-025-SA5DN-SB-23.0-24.0
SL-028-SA5DN-SB-4.0-5.0
SL-028-SA5DN-SB-11.5-12.5
SL-051-SA5DN-SB-4.0-5.0
SL-051-SA5DN-SB-14.0-15.0
SL-076-SA8N-SB-4.0-5.0
SL-076-SA8N-SB-7.5-8.5
SL-106-SA8N-SB-2.5-3.5
SL-109-SA8N-SB-4.0-5.0
SL-109-SA8N-SB-9.0-10.0
DUP10-SA8N-QC-060811
EB16-SA8N-SB-060811
SL-037-SA5DN-SB-4.0-5.0
SL-037-SA5DN-SB-11.5-12.5
SL-038-SA5DN-SB-4.0-5.0
SL-038-SA5DN-SB-10.5-11.5
SL-039-SA5DN-SB-4.0-5.0
SL-039-SA5DN-SB-11.5-12.5
SL-076-SA8N-SB-4.0-5.0MS
SL-076-SA8N-SB-4.0-5.0MSD

Introduction

This data review covers 22 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
11161005-MB	6/11/11	2,3,7,8-TCDD	0.359 pg/L	All water samples in SDG DX100
		1,2,3,7,8-PeCDF	0.737 pg/L	
		2,3,4,7,8-PeCDF	0.940 pg/L	
		1,2,3,7,8-PeCDD	0.608 pg/L	
		1,2,3,4,7,8-HxCDF	0.730 pg/L	
		1,2,3,6,7,8-HxCDF	0.764 pg/L	
		2,3,4,6,7,8-HxCDF	0.683 pg/L	
		1,2,3,4,7,8-HxCDD	0.701 pg/L	
		1,2,3,6,7,8-HxCDD	0.697 pg/L	
		1,2,3,7,8,9-HxCDD	1.10 pg/L	
		1,2,3,7,8,9-HxCDF	0.850 pg/L	
		1,2,3,4,6,7,8-HpCDF	1.68 pg/L	
		1,2,3,4,6,7,8-HpCDD	5.46 pg/L	
		1,2,3,4,7,8,9-HpCDF	1.16 pg/L	
		OCDD	13.0 pg/L	
		OCDF	5.00 pg/L	
11173002-MB	6/22/11	2,3,7,8-TCDD	0.0163 ng/Kg	SL-023-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PeCDF	0.0266 ng/Kg	SL-023-SA5DN-SB-20.0-21.0
		2,3,4,7,8-PeCDF	0.0451 ng/Kg	SL-025-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PeCDD	0.0170 ng/Kg	SL-025-SA5DN-SB-23.0-24.0
		1,2,3,4,7,8-HxCDF	0.0434 ng/Kg	SL-028-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HxCDF	0.0150 ng/Kg	SL-028-SA5DN-SB-11.5-12.5
		2,3,4,6,7,8-HxCDF	0.0249 ng/Kg	SL-051-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0157 ng/Kg	SL-051-SA5DN-SB-14.0-15.0
		1,2,3,6,7,8-HxCDD	0.0303 ng/Kg	SL-076-SA8N-SB-4.0-5.0
		1,2,3,7,8,9-HxCDD	0.0403 ng/Kg	SL-109-SA8N-SB-4.0-5.0
		1,2,3,7,8,9-HxCDF	0.0235 ng/Kg	SL-037-SA5DN-SB-4.0-5.0
		1,2,3,4,6,7,8-HpCDF	0.0675 ng/Kg	SL-037-SA5DN-SB-11.5-12.5
		1,2,3,4,6,7,8-HpCDD	0.396 ng/Kg	SL-038-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HpCDF	0.0845 ng/Kg	SL-038-SA5DN-SB-10.5-11.5
		OCDD	0.888 ng/Kg	SL-039-SA5DN-SB-4.0-5.0
		OCDF	0.324 ng/Kg	SL-039-SA5DN-SB-11.5-12.5
11178001-MB	6/27/11	2,3,7,8-TCDF	0.0118 ng/Kg	SL-076-SA8N-SB-7.5-8.5
		1,2,3,7,8-PeCDF	0.0379 ng/Kg	SL-106-SA8N-SB-2.5-3.5
		2,3,4,7,8-PeCDF	0.0563 ng/Kg	SL-109-SA8N-SB-9.0-10.0
		1,2,3,7,8-PeCDD	0.0470 ng/Kg	DUP10-SA8N-QC-060811
		1,2,3,4,7,8-HxCDF	0.0465 ng/Kg	
		1,2,3,6,7,8-HxCDF	0.0500 ng/Kg	
		2,3,4,6,7,8-HxCDF	0.0295 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0572 ng/Kg	
		1,2,3,6,7,8-HxCDD	0.0570 ng/Kg	
		1,2,3,7,8,9-HxCDD	0.0780 ng/Kg	
		1,2,3,7,8,9-HxCDF	0.0771 ng/Kg	
		1,2,3,4,6,7,8-HpCDF	0.113 ng/Kg	
		1,2,3,4,6,7,8-HpCDD	0.357 ng/Kg	
		1,2,3,4,7,8,9-HpCDF	0.0781 ng/Kg	
		OCDD	0.811 ng/Kg	
		OCDF	0.234 ng/Kg	

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
EB16-SA8N-SB-060811	1,2,3,7,8-PeCDF	0.362 pg/L	0.362U pg/L
	2,3,4,7,8-PeCDF	0.947 pg/L	0.947U pg/L
	1,2,3,7,8-PeCDD	0.532 pg/L	0.532U pg/L
	1,2,3,4,7,8-HxCDF	0.368 pg/L	0.368U pg/L
	2,3,4,6,7,8-HxCDF	0.436 pg/L	0.436U pg/L
	1,2,3,4,7,8-HxCDD	0.315 pg/L	0.315U pg/L
	1,2,3,7,8,9-HxCDD	0.778 pg/L	0.778U pg/L
	1,2,3,4,6,7,8-HpCDF	1.22 pg/L	1.22U pg/L
	1,2,3,4,6,7,8-HpCDD	6.00 pg/L	6.00U pg/L
	1,2,3,4,7,8,9-HpCDF	0.343 pg/L	0.343U pg/L
	OCDD	12.4 pg/L	12.4U pg/L
	OCDF	1.17 pg/L	1.17U pg/L
SL-023-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.132 ng/Kg	0.132U ng/Kg
	2,3,4,7,8-PeCDF	0.0753 ng/Kg	0.0753U ng/Kg
	1,2,3,7,8-PeCDD	0.0528 ng/Kg	0.0528U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0947 ng/Kg	0.0947U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0294 ng/Kg	0.0294U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0385 ng/Kg	0.0385U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0242 ng/Kg	0.0242U ng/Kg
	1,2,3,6,7,8-HxCDD	0.127 ng/Kg	0.127U ng/Kg
	1,2,3,7,8,9-HxCDD	0.176 ng/Kg	0.176U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.100 ng/Kg	0.100U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0197 ng/Kg	0.0197U ng/Kg
	OCDF	0.328 ng/Kg	0.328U ng/Kg
SL-023-SA5DN-SB-20.0-21.0	1,2,3,7,8-PeCDF	0.0136 ng/Kg	0.0136U ng/Kg
	2,3,4,7,8-PeCDF	0.0368 ng/Kg	0.0368U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0225 ng/Kg	0.0225U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0163 ng/Kg	0.0163U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0350 ng/Kg	0.0350U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0387 ng/Kg	0.0387U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0579 ng/Kg	0.0579U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0394 ng/Kg	0.0394U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0303 ng/Kg	0.0303U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.342 ng/Kg	0.342U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0160 ng/Kg	0.0160U ng/Kg
	OCDD	0.693 ng/Kg	0.693U ng/Kg
	OCDF	0.100 ng/Kg	0.100U ng/Kg
SL-025-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0372 ng/Kg	0.0372U ng/Kg
	2,3,4,7,8-PeCDF	0.0361 ng/Kg	0.0361U ng/Kg
	1,2,3,7,8-PeCDD	0.0194 ng/Kg	0.0194U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0118 ng/Kg	0.0118U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0103 ng/Kg	0.0103U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0192 ng/Kg	0.0192U ng/Kg
	1,2,3,6,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
	1,2,3,7,8,9-HxCDD	0.148 ng/Kg	0.148U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0667 ng/Kg	0.0667U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0171 ng/Kg	0.0171U ng/Kg
	OCDF	0.176 ng/Kg	0.176U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-025-SA5DN-SB-23.0-24.0	2,3,7,8-TCDD	0.0244 ng/Kg	0.0244U ng/Kg
	1,2,3,7,8-PeCDF	0.0131 ng/Kg	0.0131U ng/Kg
	2,3,4,7,8-PeCDF	0.0470 ng/Kg	0.0470U ng/Kg
	1,2,3,7,8-PeCDD	0.0182 ng/Kg	0.0182U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0133 ng/Kg	0.0133U ng/Kg
	1,2,3,6,7,8-HxCDF	0.00816 ng/Kg	0.00816U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0294 ng/Kg	0.0294U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0351 ng/Kg	0.0351U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0210 ng/Kg	0.0210U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0238 ng/Kg	0.0238U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.339 ng/Kg	0.339U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0227 ng/Kg	0.0227U ng/Kg
	OCDD	0.807 ng/Kg	0.807U ng/Kg
	OCDF	0.0616 ng/Kg	0.0616U ng/Kg
SL-028-SA5DN-SB-4.0-5.0	2,3,4,7,8-PeCDF	0.156 ng/Kg	0.156U ng/Kg
	1,2,3,7,8-PeCDD	0.0653 ng/Kg	0.0653U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0342 ng/Kg	0.0342U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0597 ng/Kg	0.0597U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0600 ng/Kg	0.0600U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0711 ng/Kg	0.0711U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0992 ng/Kg	0.0992U ng/Kg
	OCDF	1.11 ng/Kg	1.11U ng/Kg
SL-028-SA5DN-SB-11.5-12.5	1,2,3,4,7,8-HxCDD	0.0541 ng/Kg	0.0541U ng/Kg
	1,2,3,7,8,9-HxCDD	0.187 ng/Kg	0.187U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.230 ng/Kg	0.230U ng/Kg
	OCDF	1.34 ng/Kg	1.34U ng/Kg
SL-051-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD	0.0220 ng/Kg	0.0220U ng/Kg
	1,2,3,7,8-PeCDF	0.0958 ng/Kg	0.0958U ng/Kg
	2,3,4,7,8-PeCDF	0.0912 ng/Kg	0.0912U ng/Kg
	1,2,3,7,8-PeCDD	0.0777 ng/Kg	0.0777U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0508 ng/Kg	0.0508U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0517 ng/Kg	0.0517U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0455 ng/Kg	0.0455U ng/Kg
	1,2,3,6,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
	1,2,3,7,8,9-HxCDD	0.130 ng/Kg	0.130U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0664 ng/Kg	0.0664U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.701 ng/Kg	0.701U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0267 ng/Kg	0.0267U ng/Kg
	OCDD	4.11 ng/Kg	4.11U ng/Kg
	OCDF	0.105 ng/Kg	0.105U ng/Kg
SL-051-SA5DN-SB-14.0-15.0	2,3,7,8-TCDD	0.0349 ng/Kg	0.0349U ng/Kg
	1,2,3,7,8-PeCDF	0.105 ng/Kg	0.105U ng/Kg
	2,3,4,7,8-PeCDF	0.103 ng/Kg	0.103U ng/Kg
	1,2,3,7,8-PeCDD	0.0837 ng/Kg	0.0837U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0609 ng/Kg	0.0609U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0670 ng/Kg	0.0670U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0433 ng/Kg	0.0433U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0345 ng/Kg	0.0345U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0671 ng/Kg	0.0671U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0768 ng/Kg	0.0768U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0562 ng/Kg	0.0562U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0430 ng/Kg	0.0430U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.380 ng/Kg	0.380U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0474 ng/Kg	0.0474U ng/Kg
	OCDD	0.937 ng/Kg	0.937U ng/Kg
	OCDF	0.133 ng/Kg	0.133U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-076-SA8N-SB-4.0-5.0	2,3,7,8-TCDD	0.0291 ng/Kg	0.0291U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0621 ng/Kg	0.0621U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0482 ng/Kg	0.0482U ng/Kg
	1,2,3,6,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
	1,2,3,7,8,9-HxCDD	0.129 ng/Kg	0.129U ng/Kg
	1,2,3,7,8,9-HxCDF	0.104 ng/Kg	0.104U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.180 ng/Kg	0.180U ng/Kg
	1,2,3,4,6,7,8-HpCDD	1.44 ng/Kg	1.44U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0419 ng/Kg	0.0419U ng/Kg
	OCDF	0.264 ng/Kg	0.264U ng/Kg
SL-109-SA8N-SB-4.0-5.0	1,2,3,7,8-PeCDF	0.0127 ng/Kg	0.0127U ng/Kg
	2,3,4,7,8-PeCDF	0.0340 ng/Kg	0.0340U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0262 ng/Kg	0.0262U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0144 ng/Kg	0.0144U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0193 ng/Kg	0.0193U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0263 ng/Kg	0.0263U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0412 ng/Kg	0.0412U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0172 ng/Kg	0.0172U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0326 ng/Kg	0.0326U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.346 ng/Kg	0.346U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0271 ng/Kg	0.0271U ng/Kg
	OCDD	1.09 ng/Kg	1.09U ng/Kg
	OCDF	0.0772 ng/Kg	0.0772U ng/Kg
SL-037-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD	0.0502 ng/Kg	0.0502U ng/Kg
	2,3,4,7,8-PeCDF	0.131 ng/Kg	0.131U ng/Kg
	1,2,3,4,7,8-HxCDF	0.147 ng/Kg	0.147U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0651 ng/Kg	0.0651U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0470 ng/Kg	0.0470U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.320 ng/Kg	0.320U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0577 ng/Kg	0.0577U ng/Kg
	OCDF	0.760 ng/Kg	0.760U ng/Kg
SL-037-SA5DN-SB-11.5-12.5	1,2,3,7,8-PeCDF	0.0850 ng/Kg	0.0850U ng/Kg
	2,3,4,7,8-PeCDF	0.0796 ng/Kg	0.0796U ng/Kg
	1,2,3,7,8-PeCDD	0.0480 ng/Kg	0.0480U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0366 ng/Kg	0.0366U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0401 ng/Kg	0.0401U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0319 ng/Kg	0.0319U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0355 ng/Kg	0.0355U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0448 ng/Kg	0.0448U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0548 ng/Kg	0.0548U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0510 ng/Kg	0.0510U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0437 ng/Kg	0.0437U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.379 ng/Kg	0.379U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0423 ng/Kg	0.0423U ng/Kg
	OCDD	0.856 ng/Kg	0.856U ng/Kg
	OCDF	0.0806 ng/Kg	0.0806U ng/Kg
SL-038-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD	0.0316 ng/Kg	0.0316U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.189 ng/Kg	0.189U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-038-SA5DN-SB-10.5-11.5	1,2,3,7,8-PeCDF	0.0365 ng/Kg	0.0365U ng/Kg
	2,3,4,7,8-PeCDF	0.0368 ng/Kg	0.0368U ng/Kg
	1,2,3,7,8-PeCDD	0.0191 ng/Kg	0.0191U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0213 ng/Kg	0.0213U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0186 ng/Kg	0.0186U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0685 ng/Kg	0.0685U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0359 ng/Kg	0.0359U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0251 ng/Kg	0.0251U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0806 ng/Kg	0.0806U ng/Kg
	1,2,3,4,6,7,8-HpCDD	1.85 ng/Kg	1.85U ng/Kg
	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-039-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD	0.0267 ng/Kg	0.0267U ng/Kg
SL-039-SA5DN-SB-11.5-12.5	1,2,3,7,8-PeCDF	0.0180 ng/Kg	0.0180U ng/Kg
	2,3,4,7,8-PeCDF	0.0558 ng/Kg	0.0558U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0298 ng/Kg	0.0298U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0577 ng/Kg	0.0577U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0465 ng/Kg	0.0465U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0361 ng/Kg	0.0361U ng/Kg
	1,2,3,7,8,9-HxCDD	0.107 ng/Kg	0.107U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0380 ng/Kg	0.0380U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0849 ng/Kg	0.0849U ng/Kg
SL-076-SA8N-SB-7.5-8.5	1,2,3,7,8-PeCDF	0.115 ng/Kg	0.115U ng/Kg
	2,3,4,7,8-PeCDF	0.0522 ng/Kg	0.0522U ng/Kg
	1,2,3,7,8-PeCDD	0.0397 ng/Kg	0.0397U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0307 ng/Kg	0.0307U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0262 ng/Kg	0.0262U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0131 ng/Kg	0.0131U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0336 ng/Kg	0.0336U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0362 ng/Kg	0.0362U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0447 ng/Kg	0.0447U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0539 ng/Kg	0.0539U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.474 ng/Kg	0.474U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0259 ng/Kg	0.0259U ng/Kg
	OCDD	1.64 ng/Kg	1.64U ng/Kg
	OCDF	0.132 ng/Kg	0.132U ng/Kg
SL-106-SA8N-SB-2.5-3.5	1,2,3,7,8-PeCDF	0.0136 ng/Kg	0.0136U ng/Kg
	2,3,4,7,8-PeCDF	0.0495 ng/Kg	0.0495U ng/Kg
	1,2,3,4,7,8-HxCDF	0.0196 ng/Kg	0.0196U ng/Kg
	1,2,3,6,7,8-HxCDF	0.0222 ng/Kg	0.0222U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0193 ng/Kg	0.0193U ng/Kg
	1,2,3,4,7,8-HxCDD	0.0200 ng/Kg	0.0200U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0492 ng/Kg	0.0492U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0140 ng/Kg	0.0140U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0405 ng/Kg	0.0405U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.555 ng/Kg	0.555U ng/Kg
	OCDD	1.32 ng/Kg	1.32U ng/Kg
	OCDF	0.140 ng/Kg	0.140U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-109-SA8N-SB-9.0-10.0	2,3,7,8-TCDF	0.0123 ng/Kg	0.0123U ng/Kg
	1,2,3,7,8-PeCDF	0.0141 ng/Kg	0.0141U ng/Kg
	2,3,4,7,8-PeCDF	0.0430 ng/Kg	0.0430U ng/Kg
	1,2,3,7,8-PeCDD	0.0144 ng/Kg	0.0144U ng/Kg
	2,3,4,6,7,8-HxCDF	0.00726 ng/Kg	0.00726U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0225 ng/Kg	0.0225U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0326 ng/Kg	0.0326U ng/Kg
	1,2,3,7,8,9-HxCDF	0.0169 ng/Kg	0.0169U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.0327 ng/Kg	0.0327U ng/Kg
	1,2,3,4,6,7,8-HpCDD	0.467 ng/Kg	0.467U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0233 ng/Kg	0.0233U ng/Kg
	OCDD	1.14 ng/Kg	1.14U ng/Kg
	OCDF	0.0856 ng/Kg	0.0856U ng/Kg
DUP10-SA8N-QC-060811	1,2,3,7,8-PeCDD	0.0192 ng/Kg	0.0192U ng/Kg
	1,2,3,6,7,8-HxCDF	0.156 ng/Kg	0.156U ng/Kg
	2,3,4,6,7,8-HxCDF	0.0353 ng/Kg	0.0353U ng/Kg
	1,2,3,6,7,8-HxCDD	0.0801 ng/Kg	0.0801U ng/Kg
	1,2,3,7,8,9-HxCDD	0.0803 ng/Kg	0.0803U ng/Kg
	1,2,3,7,8,9-HxCDF	0.106 ng/Kg	0.106U ng/Kg
	1,2,3,4,6,7,8-HpCDF	0.185 ng/Kg	0.185U ng/Kg
	1,2,3,4,6,7,8-HpCDD	1.70 ng/Kg	1.70U ng/Kg
	1,2,3,4,7,8,9-HpCDF	0.0424 ng/Kg	0.0424U ng/Kg
	OCDF	0.338 ng/Kg	0.338U ng/Kg

Sample EB16-SA8N-SB-060811 was identified as an equipment blank. No polychlorinated dioxin/dibenzofuran contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB16-SA8N-SB-060811	6/8/11	1,2,3,7,8-PeCDF	0.362 pg/L	All soil samples in SDG DX100
		2,3,4,7,8-PeCDF	0.947 pg/L	
		1,2,3,7,8-PeCDD	0.532 pg/L	
		1,2,3,4,7,8-HxCDF	0.368 pg/L	
		2,3,4,6,7,8-HxCDF	0.436 pg/L	
		1,2,3,4,7,8-HxCDD	0.315 pg/L	
		1,2,3,7,8,9-HxCDD	0.778 pg/L	
		1,2,3,4,6,7,8-HpCDF	1.22 pg/L	
		1,2,3,4,6,7,8-HpCDD	6.00 pg/L	
		1,2,3,4,7,8,9-HpCDF	0.343 pg/L	
		OCDD	12.4 pg/L	
		OCDF	1.17 pg/L	

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X for other contaminants) than the concentrations found in the associated field blanks.

VI. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

All target compound identifications were within validation criteria.

XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
SL-039-SA5DN-SB-4.0-5.0	OCDD	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX100	All compounds reported below the RL.	J (all detects)	A

XII. System Performance

The system performance was acceptable.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

Samples SL-076-SA8N-SB-4.0-5.0 and DUP10-SA8N-QC-060811 were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-076-SA8N-SB-4.0-5.0	DUP10-SA8N-QC-060811			
2,3,7,8-TCDF	0.118	0.514	125 (≤50)	J (all detects)	A
2,3,7,8-TCDD	0.0291	0.0158U	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDF	0.167	1.96	169 (≤50)	J (all detects)	A
2,3,4,7,8-PeCDF	0.369	0.0394U	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDD	0.0871	0.0192	128 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDF	0.593	0.550	8 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.0805	0.156	64 (≤50)	J (all detects)	A
2,3,4,6,7,8-HxCDF	0.0621	0.0353	55 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDD	0.0482	0.0227U	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,6,7,8-HxCDD	0.106	0.0801	28 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.129	0.0803	47 (≤50)	-	-
1,2,3,7,8,9-HxCDF	0.104	0.106	2 (≤50)	-	-
1,2,3,4,6,7,8-HpCDF	0.180	0.185	3 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	1.44	1.70	17 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.0419	0.0424	1 (≤50)	-	-
OCDD	12.7	16.0	23 (≤50)	-	-
OCDF	0.264	0.338	25 (≤50)	-	-

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX100

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX100	SL-039-SA5DN-SB-4.0-5.0	OCDD	J (all detects)	P	Compound quantitation and RLs (*XI)
DX100	SL-023-SA5DN-SB-4.0-5.0 SL-023-SA5DN-SB-20.0-21.0 SL-025-SA5DN-SB-4.0-5.0 SL-025-SA5DN-SB-23.0-24.0 SL-028-SA5DN-SB-4.0-5.0 SL-028-SA5DN-SB-11.5-12.5 SL-051-SA5DN-SB-4.0-5.0 SL-051-SA5DN-SB-14.0-15.0 SL-076-SA8N-SB-4.0-5.0 SL-076-SA8N-SB-7.5-8.5 SL-106-SA8N-SB-2.5-3.5 SL-109-SA8N-SB-4.0-5.0 SL-109-SA8N-SB-9.0-10.0 DUP10-SA8N-QC-060811 EB16-SA8N-SB-060811 SL-037-SA5DN-SB-4.0-5.0 SL-037-SA5DN-SB-11.5-12.5 SL-038-SA5DN-SB-4.0-5.0 SL-038-SA5DN-SB-10.5-11.5 SL-039-SA5DN-SB-4.0-5.0 SL-039-SA5DN-SB-11.5-12.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX100	SL-076-SA8N-SB-4.0-5.0 DUP10-SA8N-QC-060811	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF	J (all detects) J (all detects) J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DX100	SL-076-SA8N-SB-4.0-5.0 DUP10-SA8N-QC-060811	2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDD	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX100

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX100	EB16-SA8N-SB-060811	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.362U pg/L 0.947U pg/L 0.532U pg/L 0.368U pg/L 0.436U pg/L 0.315U pg/L 0.778U pg/L 1.22U pg/L 6.00U pg/L 0.343U pg/L 12.4U pg/L 1.17U pg/L	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX100	SL-023-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.132U ng/Kg 0.0753U ng/Kg 0.0528U ng/Kg 0.0947U ng/Kg 0.0294U ng/Kg 0.0385U ng/Kg 0.0242U ng/Kg 0.127U ng/Kg 0.176U ng/Kg 0.100U ng/Kg 0.0197U ng/Kg 0.328U ng/Kg	A	B
DX100	SL-023-SA5DN-SB-20.0-21.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0136U ng/Kg 0.0368U ng/Kg 0.0225U ng/Kg 0.0163U ng/Kg 0.0350U ng/Kg 0.0387U ng/Kg 0.0579U ng/Kg 0.0394U ng/Kg 0.0303U ng/Kg 0.342U ng/Kg 0.0160U ng/Kg 0.693U ng/Kg 0.100U ng/Kg	A	B
DX100	SL-025-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0372U ng/Kg 0.0361U ng/Kg 0.0194U ng/Kg 0.0118U ng/Kg 0.0103U ng/Kg 0.0192U ng/Kg 0.103U ng/Kg 0.148U ng/Kg 0.0667U ng/Kg 0.0171U ng/Kg 0.176U ng/Kg	A	B
DX100	SL-025-SA5DN-SB-23.0-24.0	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0244U ng/Kg 0.0131U ng/Kg 0.0470U ng/Kg 0.0182U ng/Kg 0.0133U ng/Kg 0.00816U ng/Kg 0.0294U ng/Kg 0.0351U ng/Kg 0.0210U ng/Kg 0.0238U ng/Kg 0.339U ng/Kg 0.0227U ng/Kg 0.807U ng/Kg 0.0616U ng/Kg	A	B
DX100	SL-028-SA5DN-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.156U ng/Kg 0.0653U ng/Kg 0.0342U ng/Kg 0.0597U ng/Kg 0.0600U ng/Kg 0.0711U ng/Kg 0.0992U ng/Kg 1.11U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX100	SL-028-SA5DN-SB-11.5-12.5	1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0541U ng/Kg 0.187U ng/Kg 0.230U ng/Kg 1.34U ng/Kg	A	B
DX100	SL-051-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0220U ng/Kg 0.0958U ng/Kg 0.0912U ng/Kg 0.0777U ng/Kg 0.0508U ng/Kg 0.0517U ng/Kg 0.0455U ng/Kg 0.103U ng/Kg 0.130U ng/Kg 0.0664U ng/Kg 0.701U ng/Kg 0.0267U ng/Kg 4.11U ng/Kg 0.105U ng/Kg	A	B
DX100	SL-051-SA5DN-SB-14.0-15.0	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0349U ng/Kg 0.105U ng/Kg 0.103U ng/Kg 0.0837U ng/Kg 0.0609U ng/Kg 0.0670U ng/Kg 0.0433U ng/Kg 0.0345U ng/Kg 0.0671U ng/Kg 0.0768U ng/Kg 0.0562U ng/Kg 0.0430U ng/Kg 0.380U ng/Kg 0.0474U ng/Kg 0.937U ng/Kg 0.133U ng/Kg	A	B
DX100	SL-076-SA8N-SB-4.0-5.0	2,3,7,8-TCDD 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0291U ng/Kg 0.0621U ng/Kg 0.0482U ng/Kg 0.106U ng/Kg 0.129U ng/Kg 0.104U ng/Kg 0.180U ng/Kg 1.44U ng/Kg 0.0419U ng/Kg 0.264U ng/Kg	A	B
DX100	SL-109-SA8N-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0127U ng/Kg 0.0340U ng/Kg 0.0262U ng/Kg 0.0144U ng/Kg 0.0193U ng/Kg 0.0263U ng/Kg 0.0412U ng/Kg 0.0172U ng/Kg 0.0326U ng/Kg 0.346U ng/Kg 0.0271U ng/Kg 1.09U ng/Kg 0.0772U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX100	SL-037-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0502U ng/Kg 0.131U ng/Kg 0.147U ng/Kg 0.0651U ng/Kg 0.0470U ng/Kg 0.320U ng/Kg 0.0577U ng/Kg 0.760U ng/Kg	A	B
DX100	SL-037-SA5DN-SB-11.5-12.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0850U ng/Kg 0.0796U ng/Kg 0.0480U ng/Kg 0.0366U ng/Kg 0.0401U ng/Kg 0.0319U ng/Kg 0.0355U ng/Kg 0.0448U ng/Kg 0.0548U ng/Kg 0.0510U ng/Kg 0.0437U ng/Kg 0.379U ng/Kg 0.0423U ng/Kg 0.856U ng/Kg 0.0806U ng/Kg	A	B
DX100	SL-038-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD 1,2,3,4,7,8,9-HpCDF	0.0316U ng/Kg 0.189U ng/Kg	A	B
DX100	SL-038-SA5DN-SB-10.5-11.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDF	0.0365U ng/Kg 0.0368U ng/Kg 0.0191U ng/Kg 0.0213U ng/Kg 0.0186U ng/Kg 0.0685U ng/Kg 0.0359U ng/Kg 0.0251U ng/Kg 0.0806U ng/Kg 1.85U ng/Kg 0.251U ng/Kg	A	B
DX100	SL-039-SA5DN-SB-4.0-5.0	2,3,7,8-TCDD	0.0267U ng/Kg	A	B
DX100	SL-039-SA5DN-SB-11.5-12.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0180U ng/Kg 0.0558U ng/Kg 0.0298U ng/Kg 0.0577U ng/Kg 0.0465U ng/Kg 0.0361U ng/Kg 0.107U ng/Kg 0.0380U ng/Kg 0.0849U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX100	SL-076-SA8N-SB-7.5-8.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.115U ng/Kg 0.0522U ng/Kg 0.0397U ng/Kg 0.0307U ng/Kg 0.0262U ng/Kg 0.0131U ng/Kg 0.0336U ng/Kg 0.0362U ng/Kg 0.0447U ng/Kg 0.0539U ng/Kg 0.474U ng/Kg 0.0259U ng/Kg 1.64U ng/Kg 0.132U ng/Kg	A	B
DX100	SL-106-SA8N-SB-2.5-3.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD OCDF	0.0136U ng/Kg 0.0495U ng/Kg 0.0196U ng/Kg 0.0222U ng/Kg 0.0193U ng/Kg 0.0200U ng/Kg 0.0492U ng/Kg 0.0140U ng/Kg 0.0405U ng/Kg 0.555U ng/Kg 1.32U ng/Kg 0.140U ng/Kg	A	B
DX100	SL-109-SA8N-SB-9.0-10.0	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0123U ng/Kg 0.0141U ng/Kg 0.0430U ng/Kg 0.0144U ng/Kg 0.00726U ng/Kg 0.0225U ng/Kg 0.0326U ng/Kg 0.0169U ng/Kg 0.0327U ng/Kg 0.467U ng/Kg 0.0233U ng/Kg 1.14U ng/Kg 0.0856U ng/Kg	A	B
DX100	DUP10-SA8N-QC-060811	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0192U ng/Kg 0.156U ng/Kg 0.0353U ng/Kg 0.0801U ng/Kg 0.0803U ng/Kg 0.106U ng/Kg 0.185U ng/Kg 1.70U ng/Kg 0.0424U ng/Kg 0.338U ng/Kg	A	B

Santa Susana Field Laboratory
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX100

No Sample Data Qualified in this SDG

LDC #: 26250S21 **VALIDATION COMPLETENESS WORKSHEET** Date: 9/26/11
SDG #: DX100 Level IV Page: 1 of 1
Laboratory: Lancaster Laboratories Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6/8/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	% RSD ≤ 20/35
IV.	Routine calibration/~~ICV~~	A	QC limit
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LCS
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	SW	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 9, 14
XV.	Field blanks	SW	EB = 15

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: SOIL + water

1 1	SL-023-SA5DN-SB-4.0-5.0	11 2	SL-106-SA8N-SB-2.5-3.5	21 1	SL-039-SA5DN-SB-11.5-12.5	31 1	11173002
2 1	SL-023-SA5DN-SB-20.0-21.0	12 1	SL-109-SA8N-SB-4.0-5.0	22 1	SL-076-SA8N-SB-4.0-5.0MS	32 2	11178001
3 1	SL-025-SA5DN-SB-4.0-5.0	13 2	SL-109-SA8N-SB-9.0-10.0	23 1	SL-076-SA8N-SB-4.0-5.0MSD	33 3	11161005
4 1	SL-025-SA5DN-SB-23.0-24.0	14 2	DUP10-SA8N-QC-060811 D	24		34	
5 1	SL-028-SA5DN-SB-4.0-5.0	15 3	EB16-SA8N-SB-060811 W	25		35	
6 1	SL-028-SA5DN-SB-11.5-12.5	16 1	SL-037-SA5DN-SB-4.0-5.0	26		36	
7 1	SL-051-SA5DN-SB-4.0-5.0	17 1	SL-037-SA5DN-SB-11.5-12.5	27		37	
8 1	SL-051-SA5DN-SB-14.0-15.0	18 1	SL-038-SA5DN-SB-4.0-5.0	28		38	
9 1	SL-076-SA8N-SB-4.0-5.0 D	19 1	SL-038-SA5DN-SB-10.5-11.5	29		39	
10 2	SL-076-SA8N-SB-7.5-8.5	20 1	SL-039-SA5DN-SB-4.0-5.0	30		40	

Notes: _____

LDC #: 26250521

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer:

Method: Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	✓			
Cooler temperature criteria was met.	✓			
II. GC/MS Instrument performance check				
Was PFK exact mass 380.9760 verified?	✓			
Were the retention time windows established for all homologues?	✓			
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers ≤ 25% ?	✓			
Is the static resolving power at least 10,000 (10% valley definition)?	✓			
Was the mass resolution adequately check with PFK?	✓			
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	✓			
III. Initial calibration				
Was the initial calibration performed at 5 concentration levels?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20% for unlabeled compounds and ≤ 35% for labeled compounds ?	✓			
Did all calibration standards meet the Ion Abundance Ratio criteria?	✓			
Was the signal to noise ratio for each target compound ≥ 2.5 and for each recovery and internal standard ≥ 10?	✓			
IV. Continuing calibration				
Was a routine calibration performed at the beginning and end of each 12 hour period?	✓			
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	✓			
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	✓			
V. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was a method blank performed for each matrix and concentration?	✓			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?	✓			
VI. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			
VII. Laboratory control samples				
Was an LCS analyzed for this SDG?	✓			
Was an LCS analyzed per extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

LDC #: 26252 1

VALIDATION FINDINGS CHECKLIST

Reviewer: FT
2nd Reviewer: ~

Validation Area	Yes	No	NA	Findings/Comments
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			~	
Were the performance evaluation (PE) samples within the acceptance limits?			~	
IX. Internal standards				
Were internal standard recoveries within the 25-150% criteria?	~			
Was the minimum S/N ratio of all internal standard peaks ≥ 10?	~			
X. Target compound identification				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within -1 to 3 sec. of the RT of the labeled standard?	~			
For 2,3,7,8 substituted congeners without associated labeled standards, were the relative retention times of the two quantitation peaks within 0.005 time units of the RRT measured in the routine calibration?	~			
For non-2,3,7,8 substituted congeners, were the retention times of the two quantitation peaks within RT established in the performance check solution?	~			
Did compound spectra contain all characteristic ions listed in the table attached?	~			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	~			
Was the signal to noise ratio for each target compound and labeled standard ≥ 2.5?	~			
Does the maximum intensity of each specified characteristic ion coincide within ± 2 seconds (includes labeled standards)?	~			
For PCDF identification, was any signal (S/N ≥ 2.5, at ± seconds RT) detected in the corresponding PCDPE channel?	~			
Was an acceptable lock mass recorded and monitored?	~			
XI. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	~			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	~			
XII. System performance				
System performance was found to be acceptable.	~			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	~			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	~			
Target compounds were detected in the field duplicates.	~			
XV. Field blanks				
Field blanks were identified in this SDG.	~			
Target compounds were detected in the field blanks.	~			

VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

LDC #: 26250S21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(B)

Y N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC

Y N N/A Was the method blank contaminated?

Blank extraction date: 6/11/11 **Blank analysis date:** 6/14/11 **Associated samples:** All water

Conc. units: pg/L

Compound	Blank ID	Sample Identification								
	11161005-MB	5X		15						
A	0.359*	1.795								
I	0.737*	3.685		0.362*U						
J	0.940*	4.7		0.947*U						
B	0.608*	3.04		0.532*U						
K	0.730*	3.65		0.368*U						
L	0.764*	3.82								
M	0.683*	3.415		0.436*U						
C	0.701*	3.505		0.315*U						
D	0.697*	3.485								
E	1.10	5.5		0.778*U						
N	0.850*	4.25								
O	1.68	8.4		1.22U						
F	5.46	27.3		6.00U						
P	1.16*	5.8		0.343U						
G	13.0	65		12.4*U						
Q	5.00	25		1.17*U						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26250S21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC

Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 6/22/11 **Blank analysis date:** 6/24/11 **Associated samples:** 1-9, 12 , **16-21**

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11173002-MB	5X	1	2	3	4	5	6	7	8
A	0.0163*	0.0815				0.0244U			0.0220U	0.0349*U
I	0.0266*	0.133	0.132U	0.0136*U	0.0372*U	0.0131*U			0.0958U	0.105U
J	0.0451	0.2255	0.0753U	0.0368U	0.0361*U	0.0470*U	0.156U		0.0912*U	0.103U
B	0.0170	0.085	0.0528U		0.0194*U	0.0182*U	0.0653*U		0.0777U	0.0837U
K	0.0434*	0.217	0.0947U	0.0225U		0.0133*U	0.0342*U		0.0508*U	0.0609*U
L	0.0150*	0.075	0.0294U	0.0163*U	0.0118*U	0.00816*U	0.0597*U		0.0517U	0.0670U
M	0.0249*	0.1245	0.0385*U	0.0350*U	0.0103*U		0.0600*U			0.0433U
C	0.0157	0.0785	0.0242*U		0.0192*U		0.0711*U	0.0541U	0.0455*U	0.0345*U
D	0.0303	0.1515	0.127*U	0.0387U	0.103U	0.0294*U			0.103U	0.0671U
E	0.0403*	0.2015	0.176U	0.0579*U	0.148U	0.0351*U		0.187U	0.130U	0.0768U
N	0.0235*	0.1175		0.0394*U		0.0210U				0.0562*U
O	0.0675	0.3375	0.100U	0.0303*U	0.0667U	0.0238*U			0.0664*U	0.0430*U
F	0.396	1.98		0.342U		0.339U			0.701*U	0.380U
P	0.0845*	0.4225	0.0197U	0.0160*U	0.0171U	0.0227*U	0.0992*U	0.230U	0.0267*U	0.0474U
G	0.888	4.44		0.693U		0.807U			4.11U	0.937U
Q	0.324	1.62	0.328U	0.100*U	0.176U	0.0616U	1.11U	1.34U	0.105U	0.133U

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26250S21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC

Y N N/A Was the method blank contaminated?

(B)

Blank extraction date: 6/22/11 **Blank analysis date:** 6/24/11 **Associated samples:** 1-9, 12 , **16-21**

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11173002-MB	5X	9	12	16	17	18	19	20	21
A	0.0163*	0.0815	0.0291*U		0.0502*U		0.0316U		0.0267*U	
I	0.0266*	0.133		0.0127U		0.0850*U		0.0365U		0.0180*U
J	0.0451	0.2255		0.0340U	0.131U	0.0796*U		0.0368U		0.0558U
B	0.0170	0.085				0.0480*U		0.0191*U		
K	0.0434*	0.217		0.0262*U	0.147*U	0.0366*U				0.0298U
L	0.0150*	0.075		0.0144*U		0.0401U		0.0213*U		0.0577U
M	0.0249*	0.1245	0.0621*U		0.0651U	0.0319U		0.0186*U		0.0465*U
C	0.0157	0.0785	0.0482*U	0.0193U	0.0470U	0.0355*U				0.0361*U
D	0.0303	0.1515	0.106U	0.0263*U		0.0448*U		0.0685U		
E	0.0403*	0.2015	0.129U	0.0412U		0.0548*U		0.0359*U		0.107U
N	0.0235*	0.1175	0.104*U	0.0172U		0.0510U		0.0251U		0.0380*U
O	0.0675	0.3375	0.180*U	0.0326*U	0.320U	0.0437*U		0.0806*U		
F	0.396	1.98	1.44U	0.346U		0.379U		1.85U		
P	0.0845*	0.4225	0.0419*U	0.0271*U	0.0577U	0.0423*U	0.189U			0.0849*U
G	0.888	4.44		1.09U		0.856*U				
Q	0.324	1.62	0.264U	0.0772U	0.760U	0.0806*U		0.251*U		

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26250S21

VALIDATION FINDINGS WORKSHEET
Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)
Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were all samples associated with a method blank?
Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? *EMPC
Y N N/A Was the method blank contaminated?

B

Blank extraction date: 6/27/11 **Blank analysis date:** 6/28/11 **Associated samples:** 10,11,13,14

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification								
	11178001-MB	5X	10	11	13	14				
H	0.0118*	0.059			0.0123U	~~0.514U~~				
I	0.0379	0.1895	0.115U	0.0136*U	0.0141*U	~~1.96U~~				
J	0.0563*	0.2815	0.0522U	0.0495*U	0.0430*U					
B	0.0470	0.235	0.0397U		0.0144*U	0.0192U				
K	0.0465*	0.2325	0.0307U	0.0196*U		~~0.550*U~~				
L	0.0500	0.25	0.0262U	0.0222U		0.156U				
M	0.0295	0.1475	0.0131U	0.0193*U	0.00726U	0.0353*U				
C	0.0572*	0.286		0.0200*U						
D	0.0570	0.285	0.0336U		0.0225*U	0.0801*U				
E	0.0780*	0.39	0.0362U	0.0492U	0.0326*U	0.0803U				
N	0.0771*	0.3855	0.0447U	0.0140*U	0.0169*U	0.106U				
O	0.113	0.565	0.0539U	0.0405U	0.0327*U	0.185U				
F	0.357	1.785	0.474U	0.555U	0.467U	1.70U				
P	0.0781	0.3905	0.0259U		0.0233U	0.0424*U				
G	0.811	4.055	1.64U	1.32*U	1.14U	~~16.0U~~				
Q	0.234	1.17	0.132U	0.140U	0.0856*U	0.338U				

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26250S21

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

Y N N/A Were field blanks identified in this SDG?
Blank units: pg/L **Associated sample units:** ng/kG
Sampling date: 6/8/11
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: ALL SOILS >5X

Compound	Blank ID	Sample Identification								
	15	5X								
H										
A										
I	0.362*									
J	0.947*									
B	0.532*									
K	0.368*									
L										
M	0.436*									
C	0.315*									
D										
E	0.778*									
N										
O	1.22									
F	6.00									
P	0.343									
G	12.4*									
Q	1.17*									

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with compound concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC #: 26250521

VALIDATION FINDINGS WORKSHEET
Compound Quantitation and Reported CRQLs

Reviewer: FT
2nd Reviewer: L

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?
Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	~~Sample ID~~ compd	Finding	Associated Samples	Qualifications
		G	exd cal Range	20	J/Pdet * XI

Comments: See sample calculation verification worksheet for recalculations

LDC#: 26250521 **VALIDATION FINDINGS WORKSHEET**
Field Duplicates

Page: 1 of 1
Reviewer:
2nd Reviewer:

METHOD: VOA (EPA Method 8260B)

Y N NA Were field duplicate pairs identified in this SDG?

Y N NA Were target analytes detected in the field duplicate pairs? * empc (FD)

Compound	Concentration (ng/kG)		RPD ≤50	
	9	14		
H	0.118	0.514	125	J/A det
A	0.0291*	0.0158U	200	J/UJ/A
I	0.167*	1.96	169	J/A det
J	0.369	0.0394U	200	J/UJ/A
B	0.0871*	0.0192	128	J/A det
K	0.593	0.550*	8	
L	0.0805*	0.156	64	J/A det
M	0.0621*	0.0353*	55	J/A det
C	0.0482*	0.0227U	200	J/UJ/A
D	0.106	0.0801*	28	
E	0.129	0.0803	47	
N	0.104*	0.106	2	
O	0.180*	0.185	3	
F	1.44	1.70	17	
P	0.0419*	0.0424*	1	
G	12.7	16.0	23	
Q	0.264*	0.338	25	

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LDC #: 26320821

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
$\%RSD = 100 * (S/X)$

A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard
S = Standard deviation of the RRFs, X = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported RRF (cs3 std)	Recalculated RRF (cs5 std)	Reported %RSD	Recalculated %RSD
1	ICAL SOIL	6/3/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	1.017	1.017	1.033	1.033	4.59	4.59
	Int: DF17280		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.186	1.186	1.186	1.186	3.56	3.56
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.995	0.995	1.001	1.001	3.43	3.43
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	1.077	1.077	1.101	1.101	4.02	4.02
			OCDF (^{13}C-OCDF)	0.945	0.945	0.974	0.974	3.54	3.54
2	ICAL WATER	6/3/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	0.938	0.938	0.952	0.952	3.68	3.68
	Int: DF17611		2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	1.141	1.141	1.129	1.129	4.34	4.34
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	0.898	0.898	0.951	0.951	6.50	6.50
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	0.981	0.981	1.037	1.037	4.43	4.43
			OCDF (^{13}C-OCDF)	0.885	0.885	0.917	0.917	2.80	2.80
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)						
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)						
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)						
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)						
			OCDF (^{13}C-OCDF)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26250S2 /

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Reviewer: FT
2nd Reviewer: LA

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %R	Recalculated %R
1	ccv 15:55	6/24/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.830	9.830	98	98
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.510	9.510	95	95
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	49.650	49.650	99	99
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	50.060	50.060	100	100
			OCDF (^{13}C-OCDF)	100.0	102.280	102.280	102	102
2	ccv 04:24	6/25/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.920	9.920	99	99
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.440	9.440	94	94
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	50.350	50.350	101	101
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	50.900	50.900	102	102
			OCDF (^{13}C-OCDF)	100.0	103.4	103.4	103	103
3	ccv 14:42	6/28/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.760	9.760	98	98
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.260	9.260	93	93
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	49.420	49.420	99	99
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	49.750	49.750	100	100
			OCDF (^{13}C-OCDF)	100.0	102.26	102.26	102	102

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26250521

VALIDATION FINDINGS WORKSHEET
Routine Calibration Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	CCV 2:00	6/14/11	2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)	10.0	9.940	9.940	99	99
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)	10.0	9.690	9.690	97	97
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)	50.0	52.830	52.830	106	106
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)	50.0	52.630	52.630	105	105
			OCDF (^{13}C-OCDD)	100.0	102.580	102.580	103	103
2			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDD)					
3			2,3,7,8-TCDF (^{13}C-2,3,7,8-TCDF)					
			2,3,7,8-TCDD (^{13}C-2,3,7,8-TCDD)					
			1,2,3,6,7,8-HxCDD (^{13}C-1,2,3,6,7,8-HxCDD)					
			1,2,3,4,6,7,8-HpCDD (^{13}C-1,2,4,6,7,8,-HpCDD)					
			OCDF (^{13}C-OCDD)					

Comments: Refer to Routine Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26250S2/

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSR - SR)/SA Where: SSR = Spiked sample result, SR = Sample result
SA = Spike added

RPD = | MSR - MSDR | * 2/(MSR + MSDR) MSR = Matrix spike percent recovery MSDR = Matrix spike duplicate percent recovery

MS/MSD samples: 22 + 23

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		Reported RPD	Recalculated RPD
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	----	----
2,3,7,8-TCDD	22.5	22.5	0.0291	19.0	18.6	84	84	82	82	2	2
1,2,3,7,8-PeCDD	113	113	0.0871	101	99.1	89	89	85	85	2	2
1,2,3,4,7,8-HxCDD	113	113	0.0482	103	98.1	91	91	87	87	4	4
1,2,3,4,7,8,9-HpCDF	113	113	0.0419	103	102	91	91	90	90	1	1
OCDF	225	225	0.264	208	204	92	92	91	91	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 26250S2/

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC/MS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration
SA = Spike added

RPD = | LCS - LCSD | * 2/(LCS + LCSD) LCS = Laboraotry control sample percent recovery LCSD = Laboratory control sample duplicate percent recovery

LCS ID: OPR173002

Compound	Spike Added (ng/kg)		Spiked Sample Concentration (ng/kg)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
2,3,7,8-TCDD	20.0	NA	16.8	NA	84	84				
1,2,3,7,8-PeCDD	100	↓	89.3	↓	89	89				
1,2,3,4,7,8-HxCDD	100	↓	90.2	↓	90	90				
1,2,3,4,7,8,9-HpCDF	100	↓	91.7	↓	92	92				
OCDF	200	↓	185	↓	92	92	NA			

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Descriptor	Accurate mass[a]	Ion ID	Elemental Composition	Analyte	Descriptor	Accurate Mass[a]	Ion ID	Elemental Composition	Analyte
1	303.9016 305.8987 315.9419 317.9389 319.8965 321.8936 331.9368 333.9338 375.8364 [354.9792]	M M+2 M M+2 M M+2 M M+2 M+2 LOCK	$C_{12}H_4{}^{35}Cl_4O$ $C_{12}H_4{}^{35}Cl_3{}^{37}C10$ $^{13}C_{12}H_4{}^{35}Cl_4O$ $^{13}C_{12}H_4{}^{35}Cl_3{}^{37}ClO$ $C_{12}H_4{}^{35}Cl_4O_2$ $C_{12}H_4{}^{35}Cl_3{}^{37}C10_2$ $^{13}C_{12}H_4{}^{35}Cl_4O_2$ $^{13}C_{12}H_4{}^{35}Cl_3{}^{37}ClO_2$ $C_{12}H_4{}^{35}Cl_5{}^{37}ClO$ C_9F_{13}	TCDF TCDF TCDF (S) TCDF (S) TCDD TCDD TCDD (S) TCDD (S) HxCDPE PFK	4	407.7818 409.7788 417.8250 419.8220 423.7767 425.7737 435.8169 437.8140 479.7165 [430.9728]	M+2 M+4 M M+2 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}H^{35}Cl_8{}^{37}ClO$ $C_{12}H^{35}Cl_5{}^{37}Cl_2O$ $^{13}C_{12}H^{35}Cl_7O$ $^{13}C_{12}H^{35}Cl_8{}^{37}ClO$ $C_{12}H^{35}Cl_8{}^{37}ClO_2$ $C_{12}H^{35}Cl_5{}^{37}Cl_2O_2$ $^{13}C_{12}H^{35}Cl_8{}^{37}ClO_2$ $^{13}C_{12}H^{35}Cl_5{}^{37}Cl_2O_2$ $C_{12}H^{35}Cl_7{}^{37}Cl_2O$ C_9F_{17}	HpCDF HpCDF HpCDF (S) HpCDF HpCDD HpCDD HpCDD (S) HpCDD (S) NCDPE PFK
2	339.8597 341.8567 351.9000 353.8970 355.8546 357.8516 367.8949 369.8919 409.7974 [354.9792]	M+2 M+4 M+2 M+4 M+2 M+4 M+2 M+4 M+2 LOCK	$C_{12}H_3{}^{35}Cl_4{}^{37}ClO$ $C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O$ $^{13}C_{12}H_3{}^{35}Cl_4{}^{37}C10$ $^{13}C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O$ $C_{12}H_3{}^{35}Cl_4{}^{37}ClO_2$ $C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O_2$ $^{13}C_{12}H_3{}^{35}Cl_4{}^{37}ClO_2$ $^{13}C_{12}H_3{}^{35}Cl_3{}^{37}Cl_2O_2$ $C_{12}H_3{}^{35}Cl_6{}^{37}ClO$ C_9F_{13}	PeCDF PeCDF PeCDF (S) PeCDF (S) PeCDD PeCDD PeCDD (S) PeCDD (S) HpCDPE PFK	5	441.7428 443.7399 457.7377 459.7348 469.7780 471.7750 513.6775 [422.9278]	M+2 M+4 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}{}^{35}Cl_7{}^{37}ClO$ $C_{12}{}^{35}Cl_6{}^{37}Cl_2O$ $C_{12}{}^{35}Cl_7{}^{37}ClO_2$ $C_{12}{}^{35}Cl_6{}^{37}Cl_2O_2$ $^{13}C_{12}{}^{35}Cl_7{}^{37}ClO_2$ $^{13}C_{12}{}^{35}Cl_6{}^{37}Cl_2O_2$ $C_{12}{}^{35}Cl_8{}^{37}Cl_2O$ $C_{10}F_{17}$	OCDF OCDF OCDD OCDD OCDD (S) OCDD (S) DCDPE PFK
3	373.8208 375.8178 383.8639 385.8610 389.8156 391.8127 401.8559 403.8529 445.7555 [430.9728]	M+2 M+4 M M+2 M+2 M+4 M+2 M+4 M+4 LOCK	$C_{12}H_2{}^{35}Cl_5{}^{37}ClO$ $C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O$ $^{13}C_{12}H_2{}^{35}Cl_6O$ $^{13}C_{12}H_2{}^{35}Cl_5{}^{37}ClO$ $C_{12}H_2{}^{35}Cl_5{}^{37}ClO_2$ $C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O_2$ $^{13}C_{12}H_2{}^{35}Cl_5{}^{37}ClO_2$ $^{13}C_{12}H_2{}^{35}Cl_4{}^{37}Cl_2O_2$ $C_{12}H_2{}^{35}Cl_6{}^{37}Cl_2O$ C_9F_{17}	HxCDF HxCDF HxCDF (S) HxCDF (S) HxCDD HxCDD HxCDD (S) HxCDD (S) OCDPE PFK					

(a) The following nuclidic masses were used:

H = 1.007825
C = 12.000000
^{13}C = 13.003355
F = 18.9984
O = 15.994915
^{35}Cl = 34.968853
^{37}Cl = 36.965903

S = Internal/recovery standard

LDC #: 26250521

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd reviewer:

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

V_o = Volume or weight of sample extract in milliliters (ml) or grams (g).

RRF = Relative Response Factor (average) from the initial calibration

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

Example:

Sample I.D. #1 , OCDF :

Conc. = $\frac{(538+537)(1000)(\quad)}{(723775+656355)(0.945)(10.3)(0.882)}$

=

0.329

#	Sample ID	Compound	Reported Concentration ( )	Calculated Concentration ( )	Qualification

LDC #:
SDG #:

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification (additional page)

Page: of
Reviewer:

SAMPLE DELIVERY GROUP

DX101

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Jun-2011	SL-050-SA5DN-SB-4.0-5.0	6312191	N	METHOD	1613B	III
09-Jun-2011	SL-050-SA5DN-SB-11.2-12.5	6312192	N	METHOD	1613B	III
09-Jun-2011	SL-040-SA5DN-SB-4.0-5.0	6312189	N	METHOD	1613B	III
09-Jun-2011	SL-040-SA5DN-SB-10.5-11.5	6312190	N	METHOD	1613B	III
09-Jun-2011	SL-116-SA8N-SB-4.0-5.0	6312193	N	METHOD	1613B	III
10-Jun-2011	SL-041-SA5DN-SB-9.0-10.0	6313378	N	METHOD	1613B	III
10-Jun-2011	SL-041-SA5DN-SB-4.0-5.0	6313377	N	METHOD	1613B	III
10-Jun-2011	SL-045-SA5DN-SB-9.0-10.0	6313380	N	METHOD	1613B	III
10-Jun-2011	SL-045-SA5DN-SB-4.0-5.0	6313379	N	METHOD	1613B	III
10-Jun-2011	SL-111-SA8N-SB-3.0-4.0	6313385	N	METHOD	1613B	III
10-Jun-2011	SL-049-SA5DN-SB-4.0-5.0	6313383	N	METHOD	1613B	III
10-Jun-2011	SL-049-SA5DN-SB-15.5-16.5	6313384	N	METHOD	1613B	III
10-Jun-2011	SL-048-SA5DN-SB-4.0-5.0	6313381	N	METHOD	1613B	III
10-Jun-2011	SL-048-SA5DN-SB-11.5-12.5	6313382	N	METHOD	1613B	III
13-Jun-2011	SL-046-SA5DN-SB-4.0-5.0	6314493	N	METHOD	1613B	III
13-Jun-2011	SL-046-SA5DN-SB-9.0-10.0	6314494	N	METHOD	1613B	III
13-Jun-2011	SL-042-SA5DN-SB-4.0-5.0	6314489	N	METHOD	1613B	III
13-Jun-2011	SL-042-SA5DN-SB-9.0-10.0	6314490	N	METHOD	1613B	III
13-Jun-2011	SL-043-SA5DN-SB-4.0-5.0	6314491	N	METHOD	1613B	III
13-Jun-2011	SL-043-SA5DN-SB-9.0-10.0	6314492	N	METHOD	1613B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation
N = Normal Sample
FD = Field Duplicate
TB = Trip Blank
FB = Field Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-040-SA5DN-SB-10.5-11.5 *Collected:* 6/9/2011 10:39:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.424	JB	0.0148	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0853	JB	0.0252	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0286	J	0.0277	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0433	JB	0.0171	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.227	JB	0.0270	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0171	JB	0.0147	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.123	JBQ	0.0280	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0760	JBQ	0.0207	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0327	JB	0.0236	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0459	JB	0.0164	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0287	JB	0.0130	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0273	JBQ	0.0247	MDL	1.05	PQL	ng/Kg	U	B
OCDF	1.12	JB	0.0394	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-040-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.77	JB	0.0233	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.246	JB	0.0338	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.191	J	0.0437	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.459	JB	0.0368	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.35	JB	0.0428	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.228	JB	0.0332	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.759	JB	0.0414	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.601	JB	0.0423	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.127	JBQ	0.0306	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.834	JB	0.0343	MDL	5.79	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.191	JB	0.0345	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.691	JB	0.0343	MDL	5.79	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0599	JBQ	0.0293	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.325	J	0.0742	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	5.20	JB	0.0405	MDL	11.6	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory:** LL

EDD Filename: DX101_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-041-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.988	JB	0.0175	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.129	JBQ	0.0294	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.173	J	0.0358	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.257	JB	0.0298	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.686	JB	0.0360	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.168	JB	0.0259	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.778	JB	0.0369	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.801	JB	0.0373	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.185	JB	0.0340	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.570	JB	0.0309	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.174	JB	0.0288	MDL	5.93	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.572	JB	0.0315	MDL	5.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.113	JQ	0.0604	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	2.66	JB	0.0453	MDL	11.9	PQL	ng/Kg	J	Z

Sample ID: SL-041-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.915	JB	0.0177	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.165	JB	0.0314	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.228	J	0.0327	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.283	JB	0.0250	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.564	JB	0.0338	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.264	JB	0.0221	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.324	JB	0.0333	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.267	JB	0.0303	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.393	JB	0.0298	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.462	JB	0.0186	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.228	JB	0.0242	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.412	JB	0.0179	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0998	JBQ	0.0271	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.154	J	0.0364	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	2.13	JB	0.0358	MDL	11.0	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory:** LL

EDD Filename: DX101_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-042-SA5DN-SB-4.0-5.0 *Collected:* 6/13/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.44	JB	0.0258	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.282	JB	0.0550	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.276	J	0.0594	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.229	JB	0.0337	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.28	JB	0.0590	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.207	JB	0.0262	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.562	JB	0.0573	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.243	JB	0.0441	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.249	JB	0.0302	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.386	JB	0.0177	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.236	JB	0.0314	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.363	JB	0.0193	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0594	JBQ	0.0265	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0863	J	0.0450	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	7.22	JB	0.0535	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-042-SA5DN-SB-9.0-10.0 *Collected:* 6/13/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.03	JB	0.0293	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.173	JBQ	0.0536	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.221	J	0.0503	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.314	JB	0.0386	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.633	JB	0.0501	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.258	JBQ	0.0323	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.349	JB	0.0488	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.258	JBQ	0.0488	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.310	JB	0.0351	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.418	JB	0.0248	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.222	JBQ	0.0355	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.432	JB	0.0252	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0660	JB	0.0327	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.143	J	0.0670	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	2.93	JB	0.0523	MDL	10.9	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-043-SA5DN-SB-4.0-5.0 *Collected:* 6/13/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.44	JB	0.0266	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.177	JBQ	0.0519	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.104	J	0.0424	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.159	JBQ	0.0296	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.663	JB	0.0443	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.144	JB	0.0251	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.319	JB	0.0428	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.242	JB	0.0310	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.151	JB	0.0257	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.171	JB	0.0142	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.141	JB	0.0268	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.224	JBQ	0.0148	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0359	JBQ	0.0230	MDL	1.13	PQL	ng/Kg	U	B
OCDF	3.86	JB	0.0424	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-043-SA5DN-SB-9.0-10.0 *Collected:* 6/13/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.473	JB	0.0312	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.104	JB	0.00769	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0447	JBQ	0.0200	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0328	JBQ	0.0131	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0135	JBQ	0.00964	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0240	JBQ	0.0191	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0198	JBQ	0.0154	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0227	JBQ	0.0125	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0558	JB	0.0118	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0749	JBQ	0.0132	MDL	5.58	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0305	JBQ	0.0269	MDL	1.12	PQL	ng/Kg	U	B
OCDD	2.53	JB	0.0276	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.192	JB	0.0553	MDL	11.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory:** LL

EDD Filename: DX101_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-045-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.737	JB	0.0325	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.273	JB	0.0105	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.125	JB	0.0197	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.324	J	0.0277	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.421	JB	0.0222	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.329	JB	0.0274	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.384	JB	0.0174	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.329	JBQ	0.0255	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.343	JBQ	0.0261	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.535	JB	0.0268	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.504	JB	0.0156	MDL	5.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.313	JB	0.0211	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.541	JB	0.0165	MDL	5.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0874	JBQ	0.0288	MDL	1.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0636	JQ	0.0303	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	2.98	JB	0.0260	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.321	JBQ	0.0362	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-045-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.854	JB	0.0365	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.206	JB	0.0112	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.139	JBQ	0.0213	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.100	JQ	0.0250	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.133	JBQ	0.0184	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.117	JB	0.0245	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.124	JB	0.0140	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.124	JBQ	0.0237	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0953	JBQ	0.0224	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.105	JB	0.0257	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.172	JBQ	0.0128	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.147	JB	0.0166	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.177	JB	0.0135	MDL	5.70	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-045-SA5DN-SB-9.0-10.0 *Collected:* 6/10/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0458	JBQ	0.0319	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0627	J	0.0267	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	5.29	JB	0.0249	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.410	JBQ	0.0435	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-046-SA5DN-SB-4.0-5.0 *Collected:* 6/13/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.851	JB	0.0351	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JB	0.00832	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.122	JBQ	0.0187	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0323	J	0.0214	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0469	JB	0.0132	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0826	JB	0.0218	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0268	JBQ	0.0101	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0898	JBQ	0.0217	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.106	JBQ	0.0146	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0323	JB	0.00913	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0743	JBQ	0.0121	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0749	JBQ	0.00994	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0242	JBQ	0.0225	MDL	1.12	PQL	ng/Kg	U	B
OCDD	7.30	JB	0.0286	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.421	JB	0.0454	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-046-SA5DN-SB-9.0-10.0 *Collected:* 6/13/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.659	JBQ	0.0370	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.147	JBQ	0.00847	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0833	JB	0.0195	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0231	JQ	0.0217	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0331	JBQ	0.0128	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0554	JBQ	0.0211	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0296	JBQ	0.0101	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0486	JB	0.0201	MDL	5.53	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory:** LL

EDD Filename: DX101_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-046-SA5DN-SB-9.0-10.0 *Collected:* 6/13/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0126	JBQ	0.0116	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0523	JBQ	0.0106	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0831	JB	0.0115	MDL	5.53	PQL	ng/Kg	U	B
OCDD	4.70	JB	0.0302	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.260	JB	0.0528	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-048-SA5DN-SB-11.5-12.5 *Collected:* 6/10/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.473	JBQ	0.0287	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0899	JB	0.00887	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0393	JBQ	0.0174	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0208	JQ	0.0189	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0294	JB	0.0125	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0428	JB	0.0191	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0186	JBQ	0.0102	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0575	JBQ	0.0185	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0499	JBQ	0.0131	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0423	JB	0.0268	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0553	JB	0.0117	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0480	JB	0.0122	MDL	5.56	PQL	ng/Kg	U	B
OCDD	0.894	JBQ	0.0245	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.200	JB	0.0380	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.19	JB	0.0321	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.250	JB	0.0105	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0985	JBQ	0.0207	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0421	J	0.0241	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0760	JB	0.0213	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.187	JBQ	0.0235	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0792	JB	0.0171	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.284	JB	0.0244	MDL	5.81	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-048-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.390	JBQ	0.0262	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0583	JBQ	0.0267	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0841	JBQ	0.0139	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0983	JB	0.0189	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0964	JBQ	0.0142	MDL	5.81	PQL	ng/Kg	U	B
OCDD	7.46	JB	0.0269	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.522	JB	0.0430	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-049-SA5DN-SB-15.5-16.5 *Collected:* 6/10/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.926	JB	0.0318	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.158	JB	0.00946	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0619	JB	0.0194	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0260	J	0.0190	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0413	JB	0.0149	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0529	JBQ	0.0192	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0362	JBQ	0.0117	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0524	JBQ	0.0188	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0419	JBQ	0.0166	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0197	JBQ	0.0109	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0588	JB	0.0136	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0889	JB	0.0119	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0296	JBQ	0.0265	MDL	1.13	PQL	ng/Kg	U	B
OCDD	8.45	JB	0.0283	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.310	JB	0.0383	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 2:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.674	JB	0.0374	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.133	JB	0.0105	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0464	JB	0.0236	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0376	JQ	0.0245	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0481	JBQ	0.0179	MDL	5.89	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-049-SA5DN-SB-4.0-5.0 *Collected:* 6/10/2011 2:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.228	JB	0.0250	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0368	JBQ	0.0135	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.418	JB	0.0248	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.517	JB	0.0233	MDL	5.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0736	JB	0.0134	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0594	JBQ	0.0171	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0580	JB	0.0146	MDL	5.89	PQL	ng/Kg	U	B
OCDD	3.21	JB	0.0251	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.212	JBQ	0.0459	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-050-SA5DN-SB-11.2-12.5 *Collected:* 6/9/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.626	JB	0.0322	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0890	JB	0.00780	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0270	JBQ	0.0136	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0254	JQ	0.0193	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0194	JB	0.0120	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0501	JBQ	0.0194	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0182	JBQ	0.0102	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0401	JBQ	0.0188	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0193	JBQ	0.0109	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0476	JBQ	0.0111	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0408	JBQ	0.0115	MDL	5.55	PQL	ng/Kg	U	B
OCDD	3.92	JB	0.0216	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.171	JB	0.0321	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-050-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.786	JB	0.0417	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JB	0.00983	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0627	JBQ	0.0179	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0409	J	0.0234	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0310	JB	0.0178	MDL	5.66	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-050-SA5DN-SB-4.0-5.0 *Collected:* 6/9/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.160	JB	0.0237	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0286	JBQ	0.0147	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.312	JB	0.0238	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.333	JB	0.0198	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0453	JBQ	0.0272	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0988	JBQ	0.0143	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0535	JBQ	0.0167	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0612	JBQ	0.0149	MDL	5.66	PQL	ng/Kg	U	B
OCDD	5.42	JB	0.0285	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.270	JB	0.0467	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-111-SA8N-SB-3.0-4.0 *Collected:* 6/10/2011 12:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.860	JB	0.0352	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.162	JBQ	0.00975	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0325	JB	0.0195	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0523	JQ	0.0238	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.110	JB	0.0182	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.214	JB	0.0240	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0883	JB	0.0141	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.315	JB	0.0243	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.217	JBQ	0.0216	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.139	JBQ	0.0254	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.121	JB	0.0124	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0818	JB	0.0171	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.150	JBQ	0.0130	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0454	JQ	0.0230	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	5.17	JB	0.0241	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.241	JBQ	0.0391	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-116-SA8N-SB-4.0-5.0 *Collected:* 6/9/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.49	JB	0.0421	MDL	5.77	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 Laboratory: LL

EDD Filename: DX101_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-116-SA8N-SB-4.0-5.0 *Collected:* 6/9/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.245	JB	0.0133	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0415	JBQ	0.0255	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0311	J	0.0247	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.120	JB	0.0218	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.124	JBQ	0.0247	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0500	JB	0.0173	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.155	JB	0.0258	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.146	JBQ	0.0265	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.148	JBQ	0.0208	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.102	JBQ	0.0196	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.133	JB	0.0216	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0658	J	0.0490	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	0.475	JB	0.0444	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX101

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1890B371410	7/10/2011 2:10:00 PM	1,2,3,4,6,7,8-HPCDD	0.430 ng/Kg	SL-040-SA5DN-SB-10.5-11.5
		1,2,3,4,6,7,8-HPCDF	0.145 ng/Kg	SL-040-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0985 ng/Kg	SL-041-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0625 ng/Kg	SL-041-SA5DN-SB-9.0-10.0
		1,2,3,6,7,8-HXCDD	0.0652 ng/Kg	SL-042-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0628 ng/Kg	SL-042-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0708 ng/Kg	SL-043-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0946 ng/Kg	SL-043-SA5DN-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0813 ng/Kg	SL-045-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0348 ng/Kg	SL-045-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0912 ng/Kg	SL-046-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0794 ng/Kg	SL-046-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDD	0.0484 ng/Kg	SL-048-SA5DN-SB-11.5-12.5
		OCDD	1.02 ng/Kg	SL-048-SA5DN-SB-4.0-5.0
		OCDF	0.388 ng/Kg	SL-049-SA5DN-SB-15.5-16.5
				SL-049-SA5DN-SB-4.0-5.0
				SL-050-SA5DN-SB-11.2-12.5
				SL-050-SA5DN-SB-4.0-5.0
				SL-111-SA8N-SB-3.0-4.0
				SL-116-SA8N-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,4,6,7,8-HPCDF	0.424 ng/Kg	0.424U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0853 ng/Kg	0.0853U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,4,7,8-HXCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDD	0.227 ng/Kg	0.227U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDF	0.0171 ng/Kg	0.0171U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8,9-HXCDD	0.123 ng/Kg	0.123U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8,9-HXCDF	0.0760 ng/Kg	0.0760U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	1,2,3,7,8-PECDD	0.0327 ng/Kg	0.0327U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	2,3,4,6,7,8-HXCDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	2,3,4,7,8-PECDF	0.0287 ng/Kg	0.0287U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	2,3,7,8-TCDD	0.0273 ng/Kg	0.0273U ng/Kg
SL-040-SA5DN-SB-10.5-11.5(RES)	OCDF	1.12 ng/Kg	1.12U ng/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.246 ng/Kg	0.246U ng/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.228 ng/Kg	0.228U ng/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.127 ng/Kg	0.127U ng/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.191 ng/Kg	0.191U ng/Kg
SL-040-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0599 ng/Kg	0.0599U ng/Kg
SL-041-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-041-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.257 ng/Kg	0.257U ng/Kg
SL-041-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-041-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.185 ng/Kg	0.185U ng/Kg
SL-041-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.283 ng/Kg	0.283U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.264 ng/Kg	0.264U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.324 ng/Kg	0.324U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.267 ng/Kg	0.267U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.393 ng/Kg	0.393U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.228 ng/Kg	0.228U ng/Kg
SL-041-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0998 ng/Kg	0.0998U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.282 ng/Kg	0.282U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.229 ng/Kg	0.229U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.207 ng/Kg	0.207U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.243 ng/Kg	0.243U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.249 ng/Kg	0.249U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.236 ng/Kg	0.236U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.363 ng/Kg	0.363U ng/Kg
SL-042-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0594 ng/Kg	0.0594U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.173 ng/Kg	0.173U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.258 ng/Kg	0.258U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.349 ng/Kg	0.349U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.258 ng/Kg	0.258U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.310 ng/Kg	0.310U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.222 ng/Kg	0.222U ng/Kg
SL-042-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0660 ng/Kg	0.0660U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.177 ng/Kg	0.177U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.159 ng/Kg	0.159U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.319 ng/Kg	0.319U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.242 ng/Kg	0.242U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.151 ng/Kg	0.151U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.171 ng/Kg	0.171U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.141 ng/Kg	0.141U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-043-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0359 ng/Kg	0.0359U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.473 ng/Kg	0.473U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0328 ng/Kg	0.0328U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0135 ng/Kg	0.0135U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0240 ng/Kg	0.0240U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0198 ng/Kg	0.0198U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0227 ng/Kg	0.0227U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0558 ng/Kg	0.0558U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0749 ng/Kg	0.0749U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0305 ng/Kg	0.0305U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	OCDD	2.53 ng/Kg	2.53U ng/Kg
SL-043-SA5DN-SB-9.0-10.0(RES)	OCDF	0.192 ng/Kg	0.192U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.737 ng/Kg	0.737U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.273 ng/Kg	0.273U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.125 ng/Kg	0.125U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.329 ng/Kg	0.329U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.343 ng/Kg	0.343U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.313 ng/Kg	0.313U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0874 ng/Kg	0.0874U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	OCDD	2.98 ng/Kg	2.98U ng/Kg
SL-045-SA5DN-SB-4.0-5.0(RES)	OCDF	0.321 ng/Kg	0.321U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.854 ng/Kg	0.854U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.206 ng/Kg	0.206U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.139 ng/Kg	0.139U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.117 ng/Kg	0.117U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0953 ng/Kg	0.0953U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.105 ng/Kg	0.105U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.172 ng/Kg	0.172U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0458 ng/Kg	0.0458U ng/Kg
SL-045-SA5DN-SB-9.0-10.0(RES)	OCDF	0.410 ng/Kg	0.410U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.851 ng/Kg	0.851U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0826 ng/Kg	0.0826U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0898 ng/Kg	0.0898U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0323 ng/Kg	0.0323U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0743 ng/Kg	0.0743U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0749 ng/Kg	0.0749U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0242 ng/Kg	0.0242U ng/Kg
SL-046-SA5DN-SB-4.0-5.0(RES)	OCDF	0.421 ng/Kg	0.421U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.659 ng/Kg	0.659U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.147 ng/Kg	0.147U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0331 ng/Kg	0.0331U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0554 ng/Kg	0.0554U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0296 ng/Kg	0.0296U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0486 ng/Kg	0.0486U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0126 ng/Kg	0.0126U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0523 ng/Kg	0.0523U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0831 ng/Kg	0.0831U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	OCDD	4.70 ng/Kg	4.70U ng/Kg
SL-046-SA5DN-SB-9.0-10.0(RES)	OCDF	0.260 ng/Kg	0.260U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDD	0.473 ng/Kg	0.473U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0899 ng/Kg	0.0899U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0393 ng/Kg	0.0393U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,4,7,8-HXCDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDD	0.0428 ng/Kg	0.0428U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,6,7,8-HXCDF	0.0186 ng/Kg	0.0186U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDD	0.0575 ng/Kg	0.0575U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8,9-HXCDF	0.0499 ng/Kg	0.0499U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	1,2,3,7,8-PECDD	0.0423 ng/Kg	0.0423U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	2,3,4,6,7,8-HXCDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	2,3,4,7,8-PECDF	0.0480 ng/Kg	0.0480U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	OCDD	0.894 ng/Kg	0.894U ng/Kg
SL-048-SA5DN-SB-11.5-12.5(RES)	OCDF	0.200 ng/Kg	0.200U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.19 ng/Kg	1.19U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.250 ng/Kg	0.250U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0985 ng/Kg	0.0985U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0760 ng/Kg	0.0760U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.187 ng/Kg	0.187U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0792 ng/Kg	0.0792U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.284 ng/Kg	0.284U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.390 ng/Kg	0.390U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0583 ng/Kg	0.0583U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0841 ng/Kg	0.0841U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0983 ng/Kg	0.0983U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0964 ng/Kg	0.0964U ng/Kg
SL-048-SA5DN-SB-4.0-5.0(RES)	OCDF	0.522 ng/Kg	0.522U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,4,6,7,8-HPCDD	0.926 ng/Kg	0.926U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,4,6,7,8-HPCDF	0.158 ng/Kg	0.158U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,4,7,8-HXCDF	0.0413 ng/Kg	0.0413U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,6,7,8-HXCDD	0.0529 ng/Kg	0.0529U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,6,7,8-HXCDF	0.0362 ng/Kg	0.0362U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,7,8,9-HXCDD	0.0524 ng/Kg	0.0524U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,7,8,9-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	1,2,3,7,8-PECDF	0.0197 ng/Kg	0.0197U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	2,3,4,6,7,8-HXCDF	0.0588 ng/Kg	0.0588U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	2,3,4,7,8-PECDF	0.0889 ng/Kg	0.0889U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	2,3,7,8-TCDD	0.0296 ng/Kg	0.0296U ng/Kg
SL-049-SA5DN-SB-15.5-16.5(RES)	OCDF	0.310 ng/Kg	0.310U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.674 ng/Kg	0.674U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0464 ng/Kg	0.0464U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0481 ng/Kg	0.0481U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.228 ng/Kg	0.228U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0736 ng/Kg	0.0736U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	OCDD	3.21 ng/Kg	3.21U ng/Kg
SL-049-SA5DN-SB-4.0-5.0(RES)	OCDF	0.212 ng/Kg	0.212U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,4,6,7,8-HPCDD	0.626 ng/Kg	0.626U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0890 ng/Kg	0.0890U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0270 ng/Kg	0.0270U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,4,7,8-HXCDF	0.0194 ng/Kg	0.0194U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,6,7,8-HXCDD	0.0501 ng/Kg	0.0501U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,6,7,8-HXCDF	0.0182 ng/Kg	0.0182U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,7,8,9-HXCDD	0.0401 ng/Kg	0.0401U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	1,2,3,7,8-PECDF	0.0193 ng/Kg	0.0193U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	2,3,4,6,7,8-HXCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	2,3,4,7,8-PECDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	OCDD	3.92 ng/Kg	3.92U ng/Kg
SL-050-SA5DN-SB-11.2-12.5(RES)	OCDF	0.171 ng/Kg	0.171U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.786 ng/Kg	0.786U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0627 ng/Kg	0.0627U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0310 ng/Kg	0.0310U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.160 ng/Kg	0.160U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0286 ng/Kg	0.0286U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.312 ng/Kg	0.312U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.333 ng/Kg	0.333U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0453 ng/Kg	0.0453U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0988 ng/Kg	0.0988U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0535 ng/Kg	0.0535U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0612 ng/Kg	0.0612U ng/Kg
SL-050-SA5DN-SB-4.0-5.0(RES)	OCDF	0.270 ng/Kg	0.270U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.860 ng/Kg	0.860U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.162 ng/Kg	0.162U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0325 ng/Kg	0.0325U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.214 ng/Kg	0.214U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0883 ng/Kg	0.0883U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.315 ng/Kg	0.315U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.217 ng/Kg	0.217U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.139 ng/Kg	0.139U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0818 ng/Kg	0.0818U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.150 ng/Kg	0.150U ng/Kg
SL-111-SA8N-SB-3.0-4.0(RES)	OCDF	0.241 ng/Kg	0.241U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.245 ng/Kg	0.245U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0500 ng/Kg	0.0500U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.155 ng/Kg	0.155U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.148 ng/Kg	0.148U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-116-SA8N-SB-4.0-5.0(RES)	OCDF	0.475 ng/Kg	0.475U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA5DN-SB-10.5-11.5	1,2,3,4,6,7,8-HPCDF	JB	0.424	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0853	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0286	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0433	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.227	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0171	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.123	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0760	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0327	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0459	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0287	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0273	1.05	PQL	ng/Kg	
	OCDF	JB	1.12	10.5	PQL	ng/Kg	
SL-040-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.77	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.246	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.191	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.459	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.35	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.228	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.759	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.601	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.127	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.834	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.191	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.691	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0599	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.325	1.16	PQL	ng/Kg	
	OCDF	JB	5.20	11.6	PQL	ng/Kg	
SL-041-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.988	5.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.129	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.173	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.257	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.686	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.168	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.778	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.801	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.185	5.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.570	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.174	5.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.572	5.93	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.113	1.19	PQL	ng/Kg	
	OCDF	JB	2.66	11.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-041-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.915	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.165	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.228	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.283	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.564	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.264	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.324	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.267	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.393	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.462	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.228	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.412	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0998	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.154	1.10	PQL	ng/Kg	
	OCDF	JB	2.13	11.0	PQL	ng/Kg	
SL-042-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.44	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.282	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.276	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.229	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.28	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.207	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.562	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.243	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.249	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.386	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.236	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.363	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0594	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0863	1.15	PQL	ng/Kg	
	OCDF	JB	7.22	11.5	PQL	ng/Kg	
SL-042-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.03	5.46	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.173	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.221	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.314	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.633	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.258	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.349	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.258	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.310	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.418	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.222	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.432	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0660	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.143	1.09	PQL	ng/Kg	
	OCDF	JB	2.93	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-043-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.44	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.177	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.104	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.159	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.663	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.144	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.319	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.242	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.151	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.171	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.141	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.224	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0359	1.13	PQL	ng/Kg	
	OCDF	JB	3.86	11.3	PQL	ng/Kg	
SL-043-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.473	5.58	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.104	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0447	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0328	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0135	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0240	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0198	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0227	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0558	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0749	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0305	1.12	PQL	ng/Kg	
	OCDD	JB	2.53	11.2	PQL	ng/Kg	
	OCDF	JB	0.192	11.2	PQL	ng/Kg	
SL-045-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.737	5.83	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.273	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.125	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.324	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.421	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.329	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.384	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.329	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.343	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.535	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.504	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.313	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.541	5.83	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0874	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0636	1.17	PQL	ng/Kg	
	OCDD	JB	2.98	11.7	PQL	ng/Kg	
	OCDF	JBQ	0.321	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-045-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.854	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.206	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.139	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.100	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.133	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.117	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.124	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.124	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0953	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.105	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.172	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.147	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.177	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0458	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0627	1.14	PQL	ng/Kg	
	OCDD	JB	5.29	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.410	11.4	PQL	ng/Kg	
SL-046-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.851	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.166	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.122	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0323	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0469	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0826	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0268	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0898	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.106	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0323	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0743	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0749	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0242	1.12	PQL	ng/Kg	
	OCDD	JB	7.30	11.2	PQL	ng/Kg	
	OCDF	JB	0.421	11.2	PQL	ng/Kg	
SL-046-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.659	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.147	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0833	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0231	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0331	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0554	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0296	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0486	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0126	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0523	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0831	5.53	PQL	ng/Kg	
	OCDD	JB	4.70	11.1	PQL	ng/Kg	
	OCDF	JB	0.260	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA5DN-SB-11.5-12.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.473	5.56	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0899	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0393	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0208	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0294	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0428	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0186	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0575	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0499	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0423	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0553	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0480	5.56	PQL	ng/Kg	
	OCDD	JBQ	0.894	11.1	PQL	ng/Kg	
	OCDF	JB	0.200	11.1	PQL	ng/Kg	
SL-048-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.19	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.250	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0985	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0421	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0760	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.187	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0792	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.284	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.390	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0583	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0841	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0983	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0964	5.81	PQL	ng/Kg	
	OCDD	JB	7.46	11.6	PQL	ng/Kg	
	OCDF	JB	0.522	11.6	PQL	ng/Kg	
SL-049-SA5DN-SB-15.5-16.5	1,2,3,4,6,7,8-HPCDD	JB	0.926	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.158	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0619	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0260	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0413	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0529	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0362	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0524	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0419	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0197	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0588	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0889	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0296	1.13	PQL	ng/Kg	
	OCDD	JB	8.45	11.3	PQL	ng/Kg	
	OCDF	JB	0.310	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.674	5.89	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.133	5.89	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0464	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0376	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0481	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.228	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0368	5.89	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.418	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.517	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0736	5.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0594	5.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0580	5.89	PQL	ng/Kg	
	OCDD	JB	3.21	11.8	PQL	ng/Kg	
	OCDF	JBQ	0.212	11.8	PQL	ng/Kg	
SL-050-SA5DN-SB-11.2-12.5	1,2,3,4,6,7,8-HPCDD	JB	0.626	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0890	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0270	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0254	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0194	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0501	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0182	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0401	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0193	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0476	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0408	5.55	PQL	ng/Kg	
	OCDD	JB	3.92	11.1	PQL	ng/Kg	
	OCDF	JB	0.171	11.1	PQL	ng/Kg	
SL-050-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.786	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.122	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0627	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0409	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0310	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.160	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0286	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.312	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.333	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0453	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0988	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0535	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0612	5.66	PQL	ng/Kg	
	OCDD	JB	5.42	11.3	PQL	ng/Kg	
	OCDF	JB	0.270	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX101 **Laboratory: LL**

EDD Filename: DX101_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-111-SA8N-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.860	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.162	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0325	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0523	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.110	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.214	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0883	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.315	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.217	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.139	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.121	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0818	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.150	5.29	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0454	1.06	PQL	ng/Kg	
	OCDD	JB	5.17	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.241	10.6	PQL	ng/Kg	
SL-116-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.49	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.245	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0415	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0311	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.120	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.124	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0500	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.155	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.146	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.148	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.102	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.133	5.77	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0658	1.15	PQL	ng/Kg	
	OCDF	JB	0.475	11.5	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX102

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-June-2011	SL-047-SA5DN-SB-10.0-11.0	6314509	N	METHOD	1613B	III
13-June-2011	SL-054-SA5DN-SB-4.0-5.0	6314510	N	METHOD	1613B	III
13-June-2011	SL-054-SA5DN-SB-9.0-10.0	6314511	N	METHOD	1613B	III
13-June-2011	SL-202-SA5DN-SB-4.0-5.0	6314512	N	METHOD	1613B	III
13-June-2011	SL-202-SA5DN-SB-9.0-10.0	6314513	N	METHOD	1613B	III
13-June-2011	SL-047-SA5DN-SB-4.0-5.0	6314508	N	METHOD	1613B	III
14-June-2011	SL-033-SA5DN-SB-11.0-12.0	6315651	N	METHOD	1613B	III
14-June-2011	SL-032-SA5DN-SB-4.0-5.0	6315646	N	METHOD	1613B	III
14-June-2011	SL-032-SA5DN-SB-10.0-11.0	6315647	N	METHOD	1613B	III
14-June-2011	SL-033-SA5DN-SB-4.0-5.0	6315648	N	METHOD	1613B	III
14-June-2011	SL-033-SA5DN-SB-4.0-5.0MSD	6315650	MSD	METHOD	1613B	III
14-June-2011	SL-035-SA5DN-SB-4.0-5.0	6315652	N	METHOD	1613B	III
14-June-2011	SL-035-SA5DN-SB-9.5-10.5	6315653	N	METHOD	1613B	III
14-June-2011	SL-044-SA5DN-SB-4.0-5.0	6315654	N	METHOD	1613B	III
14-June-2011	SL-044-SA5DN-SB-12.0-13.0	6315655	N	METHOD	1613B	III
14-June-2011	DUP14-SA5DN-QC-061411	6315656	FD	METHOD	1613B	III
14-June-2011	EB17-SA5DN-SB-061411	6315657	EB	METHOD	1613B	III
14-June-2011	SL-033-SA5DN-SB-4.0-5.0MS	6315649	MS	METHOD	1613B	III
16-June-2011	SL-058-SA5DN-SB-9.0-10.0	6318865	N	METHOD	1613B	III
16-June-2011	SL-057-SA5DN-SB-4.0-5.0	6318862	N	METHOD	1613B	III
16-June-2011	SL-057-SA5DN-SB-9.0-10.0	6318863	N	METHOD	1613B	III
16-June-2011	SL-058-SA5DN-SB-4.0-5.0	6318864	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory:** LL

EDD Filename: DX102_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB17-SA5DN-SB-061411 *Collected:* 6/14/2011 1:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	6.79	JB	0.361	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	13.5	B	0.191	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	1.28	JBQ	0.228	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.293	JBQ	0.186	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	2.43	JBQ	0.313	MDL	10.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.775	JBQ	0.196	MDL	10.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	1.74	JB	0.298	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.464	JBQ	0.185	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	1.18	JB	0.292	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.376	JB	0.104	MDL	10.3	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	3.47	JB	0.299	MDL	10.3	PQL	pg/L	U	B
2,3,4,7,8-PECDF	1.37	JBQ	0.0944	MDL	10.3	PQL	pg/L	U	B
2,3,7,8-TCDF	0.212	JQ	0.136	MDL	2.05	PQL	pg/L	J	Z
OCDD	13.1	JB	0.361	MDL	20.5	PQL	pg/L	U	B
OCDF	6.35	JB	0.489	MDL	20.5	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP14-SA5DN-QC-061411 *Collected:* 6/14/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	6.19	B	0.0374	MDL	5.72	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	1.34	JB	0.0180	MDL	5.72	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.139	JBQ	0.0217	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.150	JB	0.0322	MDL	5.72	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.402	JB	0.0292	MDL	5.72	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.449	JB	0.0325	MDL	5.72	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.304	JB	0.0275	MDL	5.72	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.410	JB	0.0317	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.394	JBQ	0.0295	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.278	JBQ	0.0317	MDL	5.72	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.789	JB	0.0314	MDL	5.72	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.342	JB	0.0281	MDL	5.72	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory:** LL

EDD Filename: DX102_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP14-SA5DN-QC-061411 *Collected:* 6/14/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.716	JB	0.0285	MDL	5.72	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0727	JBQ	0.0228	MDL	1.14	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.198	JB	0.0525	MDL	1.14	PQL	ng/Kg	J	Z, FD
OCDD	54.0	B	0.0396	MDL	11.4	PQL	ng/Kg	J	FD
OCDF	1.57	JB	0.0247	MDL	11.4	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-032-SA5DN-SB-10.0-11.0 *Collected:* 6/14/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.495	JB	0.0424	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.118	JBQ	0.0180	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0966	JBQ	0.0296	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0507	JBQ	0.0376	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0643	JBQ	0.0198	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.117	JBQ	0.0370	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0700	JBQ	0.0169	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.124	JB	0.0346	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.104	JBQ	0.0224	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0772	JBQ	0.0279	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0847	JB	0.0115	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0776	JBQ	0.0187	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.132	JB	0.0112	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0699	JBQ	0.0239	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0269	JBQ	0.0210	MDL	1.08	PQL	ng/Kg	U	B
OCDD	0.938	JB	0.0371	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.273	JB	0.0374	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-032-SA5DN-SB-4.0-5.0 *Collected:* 6/14/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.500	JB	0.0245	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.106	JB	0.00787	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0694	JB	0.0123	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.135	JBQ	0.0206	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.137	JB	0.0108	MDL	5.51	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory:** LL

EDD Filename: DX102_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-032-SA5DN-SB-4.0-5.0 *Collected:* 6/14/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.123	JB	0.0211	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.163	JB	0.00958	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.137	JBQ	0.0209	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.112	JBQ	0.0128	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.244	JB	0.0244	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.244	JB	0.0107	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0947	JB	0.0103	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.250	JBQ	0.0104	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0541	JBQ	0.0218	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0930	JBQ	0.0228	MDL	1.10	PQL	ng/Kg	U	B
OCDD	1.52	JB	0.0219	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.161	JBQ	0.0238	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-033-SA5DN-SB-11.0-12.0 *Collected:* 6/14/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.871	JB	0.0277	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.248	JBQ	0.00939	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.260	JBQ	0.0191	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.136	JBQ	0.0197	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.165	JB	0.0163	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.204	JBQ	0.0203	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.129	JB	0.0120	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.182	JBQ	0.0199	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.245	JBQ	0.0162	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.115	JB	0.0204	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.102	JBQ	0.0101	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.138	JB	0.0136	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.142	JBQ	0.00972	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0318	JBQ	0.0178	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0313	JBQ	0.0193	MDL	1.11	PQL	ng/Kg	U	B
OCDD	3.84	JB	0.0220	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.875	JB	0.0255	MDL	11.1	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 Laboratory: LL

EDD Filename: DX102_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-033-SA5DN-SB-4.0-5.0 *Collected:* 6/14/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.80	JB	0.0434	MDL	5.62	PQL	ng/Kg	J	Z, FD
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0163	MDL	5.62	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0887	JB	0.0271	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0715	JBQ	0.0334	MDL	5.62	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0202	U	0.0202	MDL	5.62	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDD	0.264	JB	0.0341	MDL	5.62	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0548	JBQ	0.0172	MDL	5.62	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.300	JB	0.0324	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.259	JBQ	0.0216	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0241	U	0.0241	MDL	5.62	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0797	JBQ	0.0127	MDL	5.62	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0447	JBQ	0.0177	MDL	5.62	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.121	JB	0.0120	MDL	5.62	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0244	JBQ	0.0190	MDL	1.12	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0326	JBQ	0.0185	MDL	1.12	PQL	ng/Kg	UJ	B, FD
OCDD	14.7	B	0.0343	MDL	11.2	PQL	ng/Kg	J	Q, FD
OCDF	0.446	JB	0.0334	MDL	11.2	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-035-SA5DN-SB-4.0-5.0 *Collected:* 6/14/2011 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.433	JBQ	0.0245	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0852	JB	0.00902	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0479	JBQ	0.0136	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0444	JBQ	0.0169	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0296	JBQ	0.0129	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0413	JBQ	0.0164	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0457	JBQ	0.0110	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0587	JBQ	0.0160	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0714	JBQ	0.0118	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0133	JB	0.00925	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0334	JBQ	0.00948	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0631	JBQ	0.00890	MDL	5.72	PQL	ng/Kg	U	B
OCDD	1.91	JB	0.0232	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 Laboratory: LL

EDD Filename: DX102_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-035-SA5DN-SB-4.0-5.0 *Collected:* 6/14/2011 8:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.243	JB	0.0311	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-035-SA5DN-SB-9.5-10.5 *Collected:* 6/14/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.581	JB	0.0245	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.584	JB	0.00862	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0895	JB	0.0167	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0313	JBQ	0.0187	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.108	JB	0.0177	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0605	JBQ	0.0185	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0805	JB	0.0156	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0778	JB	0.0184	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0740	JB	0.0181	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0241	JBQ	0.0209	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0423	JBQ	0.00985	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.172	JB	0.0174	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0868	JBQ	0.00974	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0188	JBQ	0.0166	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0180	JBQ	0.0169	MDL	1.11	PQL	ng/Kg	U	B
OCDD	1.18	JB	0.0193	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.489	JBQ	0.0277	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-044-SA5DN-SB-12.0-13.0 *Collected:* 6/14/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.02	JB	0.0250	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.600	JB	0.0104	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0976	JBQ	0.0215	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.109	JBQ	0.0232	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.232	JBQ	0.0218	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.138	JBQ	0.0229	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.192	JB	0.0182	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.157	JBQ	0.0227	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.113	JBQ	0.0255	MDL	5.52	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 Laboratory: LL

EDD Filename: DX102_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-044-SA5DN-SB-12.0-13.0 *Collected:* 6/14/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.166	JBQ	0.0262	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.316	JB	0.0140	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.229	JB	0.0197	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.242	JBQ	0.0142	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0564	JBQ	0.0235	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0421	JBQ	0.0290	MDL	1.10	PQL	ng/Kg	U	B
OCDD	3.77	JB	0.0264	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.552	JBQ	0.0297	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-044-SA5DN-SB-4.0-5.0 *Collected:* 6/14/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.60	JB	0.0253	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.611	JB	0.00976	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0999	JBQ	0.0167	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0454	JBQ	0.0222	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.132	JBQ	0.0228	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.240	JB	0.0226	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.131	JBQ	0.0209	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.283	JBQ	0.0221	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.382	JB	0.0241	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0619	JBQ	0.0253	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.268	JBQ	0.0168	MDL	5.69	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.174	JB	0.0216	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.185	JBQ	0.0164	MDL	5.69	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0327	JBQ	0.0272	MDL	1.14	PQL	ng/Kg	U	B
OCDD	11.2	JB	0.0227	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.657	JB	0.0231	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-047-SA5DN-SB-10.0-11.0 *Collected:* 6/13/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.18	JB	0.0229	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.125	JBQ	0.00879	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0460	JBQ	0.0135	MDL	5.27	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory:** LL

EDD Filename: DX102_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-047-SA5DN-SB-10.0-11.0 *Collected:* 6/13/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0324	JBQ	0.0193	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0313	JBQ	0.00943	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0732	JBQ	0.0191	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0290	JBQ	0.00847	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0783	JB	0.0182	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0544	JB	0.0104	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0203	JBQ	0.0177	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0368	JBQ	0.00857	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0497	JBQ	0.00868	MDL	5.27	PQL	ng/Kg	U	B
OCDF	0.435	JB	0.0228	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-047-SA5DN-SB-4.0-5.0 *Collected:* 6/13/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.02	JB	0.0269	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.192	JBQ	0.0123	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0595	JBQ	0.0178	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0676	JB	0.0269	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0497	JBQ	0.0126	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.145	JB	0.0272	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0433	JB	0.0112	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.166	JBQ	0.0258	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0918	JB	0.0139	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0379	JBQ	0.00841	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0429	JBQ	0.0118	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0540	JBQ	0.00830	MDL	5.61	PQL	ng/Kg	U	B
OCDF	0.448	JB	0.0253	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-054-SA5DN-SB-4.0-5.0 *Collected:* 6/13/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.20	JB	0.0252	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.215	JB	0.00873	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0645	JBQ	0.0149	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0281	JB	0.0222	MDL	6.05	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 Laboratory: LL

EDD Filename: DX102_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-054-SA5DN-SB-4.0-5.0 *Collected:* 6/13/2011 3:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0525	JB	0.0105	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.144	JB	0.0223	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0370	JB	0.00921	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.161	JB	0.0216	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.115	JB	0.0126	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0470	JBQ	0.0205	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0341	JBQ	0.00945	MDL	6.05	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0426	JB	0.00994	MDL	6.05	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0695	JB	0.00945	MDL	6.05	PQL	ng/Kg	U	B
OCDF	0.754	JB	0.0227	MDL	12.1	PQL	ng/Kg	U	B

Sample ID: SL-054-SA5DN-SB-9.0-10.0 *Collected:* 6/13/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.905	JB	0.0244	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0713	JBQ	0.00860	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0297	JBQ	0.0130	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0246	JB	0.0180	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0414	JBQ	0.00920	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0419	JBQ	0.0178	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0214	JB	0.00836	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0676	JBQ	0.0178	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0373	JBQ	0.0102	MDL	5.91	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0347	JB	0.0116	MDL	5.91	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0232	JBQ	0.00836	MDL	5.91	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0425	JBQ	0.0105	MDL	5.91	PQL	ng/Kg	U	B
OCDD	7.71	JB	0.0182	MDL	11.8	PQL	ng/Kg	J	Z
OCDF	0.210	JB	0.0201	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-057-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.766	JB	0.0575	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.569	JB	0.0209	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.203	JB	0.0449	MDL	5.74	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory:** LL

EDD Filename: DX102_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-057-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.108	JBQ	0.0391	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.188	JBQ	0.0305	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0983	JBQ	0.0389	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.146	JB	0.0249	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.159	JBQ	0.0388	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.186	JB	0.0361	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.121	JBQ	0.0296	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.120	JB	0.0141	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.190	JBQ	0.0268	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.152	JBQ	0.0150	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0276	JBQ	0.0254	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0446	JBQ	0.0231	MDL	1.15	PQL	ng/Kg	U	B
OCDD	1.66	JB	0.0458	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.753	JB	0.0596	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-057-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.729	JB	0.0414	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.542	JB	0.0137	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0260	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0607	JBQ	0.0332	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.119	JB	0.0245	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0539	JBQ	0.0341	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.116	JBQ	0.0220	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.131	JB	0.0329	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0896	JBQ	0.0260	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0606	JBQ	0.0271	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0633	JBQ	0.0128	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.194	JBQ	0.0248	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.116	JBQ	0.0132	MDL	5.66	PQL	ng/Kg	U	B
OCDD	1.87	JB	0.0283	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.467	JB	0.0388	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory:** LL

EDD Filename: DX102_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-058-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.740	JB	0.0391	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.553	JB	0.0129	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.126	JBQ	0.0282	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.170	JB	0.0256	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0969	JBQ	0.0270	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0969	JB	0.0214	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0869	JB	0.0266	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0509	JBQ	0.0145	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.204	JB	0.0236	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.137	JBQ	0.0156	MDL	5.72	PQL	ng/Kg	U	B
OCDD	2.25	JB	0.0263	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.566	JB	0.0441	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-058-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.874	JB	0.0388	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.591	JB	0.0120	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0952	JB	0.0217	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0274	JBQ	0.0259	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.146	JB	0.0219	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0788	JBQ	0.0255	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.108	JB	0.0192	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0853	JBQ	0.0243	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0769	JBQ	0.0258	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0314	JBQ	0.0272	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0629	JBQ	0.0148	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.176	JBQ	0.0203	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.103	JB	0.0145	MDL	5.72	PQL	ng/Kg	U	B
OCDD	6.53	JB	0.0328	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.522	JB	0.0402	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory:** LL

EDD Filename: DX102_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-202-SA5DN-SB-4.0-5.0 *Collected:* 6/13/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.903	JB	0.0310	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0802	JB	0.00941	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0269	JBQ	0.0115	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0576	JBQ	0.0197	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0228	JBQ	0.0101	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.104	JBQ	0.0199	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0802	JBQ	0.0124	MDL	5.99	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0280	JBQ	0.0133	MDL	5.99	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0265	JBQ	0.0104	MDL	5.99	PQL	ng/Kg	U	B
OCDD	8.40	JB	0.0258	MDL	12.0	PQL	ng/Kg	J	Z
OCDF	0.191	JBQ	0.0285	MDL	12.0	PQL	ng/Kg	U	B

Sample ID: SL-202-SA5DN-SB-9.0-10.0 *Collected:* 6/13/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.755	JB	0.0240	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.136	JB	0.00823	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0805	JB	0.0130	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.127	JBQ	0.0210	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.174	JB	0.0142	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.129	JBQ	0.0203	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.155	JB	0.0123	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.156	JBQ	0.0199	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.119	JB	0.0155	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.225	JB	0.0227	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.244	JB	0.0109	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.115	JB	0.0127	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.229	JBQ	0.0106	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0626	JBQ	0.0213	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0527	JB	0.0195	MDL	1.15	PQL	ng/Kg	U	B
OCDD	5.76	JB	0.0199	MDL	11.5	PQL	ng/Kg	J	Z
OCDF	0.251	JB	0.0237	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX102

Method Blank Outlier Report

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1790B371907	6/30/2011 7:07:00 PM	1,2,3,4,6,7,8-HPCDD	7.89 pg/L	EB17-SA5DN-SB-061411
		1,2,3,4,6,7,8-HPCDF	12.2 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.72 pg/L	
		1,2,3,4,7,8-HxCDD	0.478 pg/L	
		1,2,3,4,7,8-HXCDF	1.69 pg/L	
		1,2,3,6,7,8-HXCDD	0.892 pg/L	
		1,2,3,6,7,8-HXCDF	1.55 pg/L	
		1,2,3,7,8,9-HXCDD	1.22 pg/L	
		1,2,3,7,8,9-HXCDF	1.02 pg/L	
		1,2,3,7,8-PECDD	0.462 pg/L	
		1,2,3,7,8-PECDF	0.412 pg/L	
		2,3,4,6,7,8-HXCDF	2.76 pg/L	
		2,3,4,7,8-PECDF	1.37 pg/L	
		2,3,7,8-TCDD	0.204 pg/L	
		OCDD	15.9 pg/L	
		OCDF	6.55 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB17-SA5DN-SB-061411(RES)	1,2,3,4,6,7,8-HPCDD	6.79 pg/L	6.79U pg/L
EB17-SA5DN-SB-061411(RES)	1,2,3,4,6,7,8-HPCDF	13.5 pg/L	13.5U pg/L
EB17-SA5DN-SB-061411(RES)	1,2,3,4,7,8,9-HPCDF	1.28 pg/L	1.28U pg/L
EB17-SA5DN-SB-061411(RES)	1,2,3,4,7,8-HxCDD	0.293 pg/L	0.293U pg/L
EB17-SA5DN-SB-061411(RES)	1,2,3,4,7,8-HXCDF	2.43 pg/L	2.43U pg/L
EB17-SA5DN-SB-061411(RES)	1,2,3,6,7,8-HXCDD	0.775 pg/L	0.775U pg/L
EB17-SA5DN-SB-061411(RES)	1,2,3,6,7,8-HXCDF	1.74 pg/L	1.74U pg/L
EB17-SA5DN-SB-061411(RES)	1,2,3,7,8,9-HXCDD	0.464 pg/L	0.464U pg/L
EB17-SA5DN-SB-061411(RES)	1,2,3,7,8,9-HXCDF	1.18 pg/L	1.18U pg/L
EB17-SA5DN-SB-061411(RES)	1,2,3,7,8-PECDF	0.376 pg/L	0.376U pg/L
EB17-SA5DN-SB-061411(RES)	2,3,4,6,7,8-HXCDF	3.47 pg/L	3.47U pg/L
EB17-SA5DN-SB-061411(RES)	2,3,4,7,8-PECDF	1.37 pg/L	1.37U pg/L
EB17-SA5DN-SB-061411(RES)	OCDD	13.1 pg/L	13.1U pg/L
EB17-SA5DN-SB-061411(RES)	OCDF	6.35 pg/L	6.35U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1780B371816	6/28/2011 6:16:00 PM	1,2,3,4,6,7,8-HPCDD	0.456 ng/Kg	DUP14-SA5DN-QC-061411
		1,2,3,4,6,7,8-HPCDF	0.123 ng/Kg	SL-032-SA5DN-SB-10.0-11.0
		1,2,3,4,7,8,9-HPCDF	0.132 ng/Kg	SL-032-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0637 ng/Kg	SL-033-SA5DN-SB-11.0-12.0
		1,2,3,4,7,8-HXCDF	0.0727 ng/Kg	SL-033-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0721 ng/Kg	SL-035-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0592 ng/Kg	SL-035-SA5DN-SB-9.5-10.5
		1,2,3,7,8,9-HXCDD	0.107 ng/Kg	SL-044-SA5DN-SB-12.0-13.0
		1,2,3,7,8,9-HXCDF	0.0980 ng/Kg	SL-044-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0516 ng/Kg	SL-047-SA5DN-SB-10.0-11.0
		1,2,3,7,8-PECDF	0.0427 ng/Kg	SL-047-SA5DN-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0541 ng/Kg	SL-054-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0735 ng/Kg	SL-054-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDD	0.0358 ng/Kg	SL-057-SA5DN-SB-4.0-5.0
		2,3,7,8-TCDF	0.0243 ng/Kg	SL-057-SA5DN-SB-9.0-10.0
		OCDD	1.07 ng/Kg	SL-058-SA5DN-SB-4.0-5.0
		OCDF	0.379 ng/Kg	SL-058-SA5DN-SB-9.0-10.0
				SL-202-SA5DN-SB-4.0-5.0
				SL-202-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP14-SA5DN-QC-061411(RES)	1,2,3,4,7,8,9-HPCDF	0.139 ng/Kg	0.139U ng/Kg
DUP14-SA5DN-QC-061411(RES)	1,2,3,4,7,8-HxCDD	0.150 ng/Kg	0.150U ng/Kg
DUP14-SA5DN-QC-061411(RES)	1,2,3,7,8,9-HXCDD	0.410 ng/Kg	0.410U ng/Kg
DUP14-SA5DN-QC-061411(RES)	1,2,3,7,8,9-HXCDF	0.394 ng/Kg	0.394U ng/Kg
DUP14-SA5DN-QC-061411(RES)	2,3,7,8-TCDD	0.0727 ng/Kg	0.0727U ng/Kg
DUP14-SA5DN-QC-061411(RES)	OCDF	1.57 ng/Kg	1.57U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,4,6,7,8-HPCDD	0.495 ng/Kg	0.495U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,4,6,7,8-HPCDF	0.118 ng/Kg	0.118U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0966 ng/Kg	0.0966U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,4,7,8-HxCDD	0.0507 ng/Kg	0.0507U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,4,7,8-HXCDF	0.0643 ng/Kg	0.0643U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,6,7,8-HXCDD	0.117 ng/Kg	0.117U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,6,7,8-HXCDF	0.0700 ng/Kg	0.0700U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,7,8,9-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,7,8,9-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,7,8-PECDD	0.0772 ng/Kg	0.0772U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	1,2,3,7,8-PECDF	0.0847 ng/Kg	0.0847U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	2,3,4,6,7,8-HXCDF	0.0776 ng/Kg	0.0776U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	2,3,4,7,8-PECDF	0.132 ng/Kg	0.132U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	2,3,7,8-TCDD	0.0699 ng/Kg	0.0699U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	2,3,7,8-TCDF	0.0269 ng/Kg	0.0269U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	OCDD	0.938 ng/Kg	0.938U ng/Kg
SL-032-SA5DN-SB-10.0-11.0(RES)	OCDF	0.273 ng/Kg	0.273U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.500 ng/Kg	0.500U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.106 ng/Kg	0.106U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-032-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0694 ng/Kg	0.0694U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.135 ng/Kg	0.135U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.123 ng/Kg	0.123U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.163 ng/Kg	0.163U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.137 ng/Kg	0.137U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.244 ng/Kg	0.244U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0947 ng/Kg	0.0947U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.250 ng/Kg	0.250U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0541 ng/Kg	0.0541U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0930 ng/Kg	0.0930U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	OCDD	1.52 ng/Kg	1.52U ng/Kg
SL-032-SA5DN-SB-4.0-5.0(RES)	OCDF	0.161 ng/Kg	0.161U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,4,6,7,8-HPCDD	0.871 ng/Kg	0.871U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,4,6,7,8-HPCDF	0.248 ng/Kg	0.248U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,4,7,8,9-HPCDF	0.260 ng/Kg	0.260U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,4,7,8-HxCDD	0.136 ng/Kg	0.136U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,4,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,6,7,8-HXCDD	0.204 ng/Kg	0.204U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,6,7,8-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,7,8,9-HXCDD	0.182 ng/Kg	0.182U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,7,8,9-HXCDF	0.245 ng/Kg	0.245U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,7,8-PECDD	0.115 ng/Kg	0.115U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	1,2,3,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	2,3,4,6,7,8-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	2,3,4,7,8-PECDF	0.142 ng/Kg	0.142U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	2,3,7,8-TCDD	0.0318 ng/Kg	0.0318U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	2,3,7,8-TCDF	0.0313 ng/Kg	0.0313U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	OCDD	3.84 ng/Kg	3.84U ng/Kg
SL-033-SA5DN-SB-11.0-12.0(RES)	OCDF	0.875 ng/Kg	0.875U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0715 ng/Kg	0.0715U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.264 ng/Kg	0.264U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0548 ng/Kg	0.0548U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.300 ng/Kg	0.300U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-033-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.259 ng/Kg	0.259U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0797 ng/Kg	0.0797U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-033-SA5DN-SB-4.0-5.0(RES)	OCDF	0.446 ng/Kg	0.446U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.433 ng/Kg	0.433U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0852 ng/Kg	0.0852U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0479 ng/Kg	0.0479U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0444 ng/Kg	0.0444U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0296 ng/Kg	0.0296U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0413 ng/Kg	0.0413U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0457 ng/Kg	0.0457U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0587 ng/Kg	0.0587U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0714 ng/Kg	0.0714U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0133 ng/Kg	0.0133U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0334 ng/Kg	0.0334U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0631 ng/Kg	0.0631U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	OCDD	1.91 ng/Kg	1.91U ng/Kg
SL-035-SA5DN-SB-4.0-5.0(RES)	OCDF	0.243 ng/Kg	0.243U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,4,6,7,8-HPCDD	0.581 ng/Kg	0.581U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,4,6,7,8-HPCDF	0.584 ng/Kg	0.584U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0895 ng/Kg	0.0895U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,4,7,8-HxCDD	0.0313 ng/Kg	0.0313U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,4,7,8-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,6,7,8-HXCDD	0.0605 ng/Kg	0.0605U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,6,7,8-HXCDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,7,8,9-HXCDD	0.0778 ng/Kg	0.0778U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,7,8,9-HXCDF	0.0740 ng/Kg	0.0740U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,7,8-PECDD	0.0241 ng/Kg	0.0241U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	1,2,3,7,8-PECDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	2,3,4,6,7,8-HXCDF	0.172 ng/Kg	0.172U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	2,3,4,7,8-PECDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	2,3,7,8-TCDD	0.0188 ng/Kg	0.0188U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	2,3,7,8-TCDF	0.0180 ng/Kg	0.0180U ng/Kg
SL-035-SA5DN-SB-9.5-10.5(RES)	OCDD	1.18 ng/Kg	1.18U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-035-SA5DN-SB-9.5-10.5(RES)	OCDF	0.489 ng/Kg	0.489U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,6,7,8-HPCDD	1.02 ng/Kg	1.02U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,6,7,8-HPCDF	0.600 ng/Kg	0.600U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0976 ng/Kg	0.0976U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,7,8-HxCDD	0.109 ng/Kg	0.109U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	1,2,3,4,7,8-HXCDF	0.232 ng/Kg	0.232U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	1,2,3,6,7,8-HXCDD	0.138 ng/Kg	0.138U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	1,2,3,6,7,8-HXCDF	0.192 ng/Kg	0.192U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	1,2,3,7,8,9-HXCDD	0.157 ng/Kg	0.157U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	1,2,3,7,8,9-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	1,2,3,7,8-PECDD	0.166 ng/Kg	0.166U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	2,3,4,6,7,8-HXCDF	0.229 ng/Kg	0.229U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	2,3,4,7,8-PECDF	0.242 ng/Kg	0.242U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	2,3,7,8-TCDD	0.0564 ng/Kg	0.0564U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	2,3,7,8-TCDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	OCDD	3.77 ng/Kg	3.77U ng/Kg
SL-044-SA5DN-SB-12.0-13.0(RES)	OCDF	0.552 ng/Kg	0.552U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.60 ng/Kg	1.60U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.611 ng/Kg	0.611U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0999 ng/Kg	0.0999U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0454 ng/Kg	0.0454U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.240 ng/Kg	0.240U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.283 ng/Kg	0.283U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.382 ng/Kg	0.382U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0619 ng/Kg	0.0619U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.185 ng/Kg	0.185U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0327 ng/Kg	0.0327U ng/Kg
SL-044-SA5DN-SB-4.0-5.0(RES)	OCDF	0.657 ng/Kg	0.657U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	1,2,3,4,6,7,8-HPCDD	1.18 ng/Kg	1.18U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	1,2,3,4,6,7,8-HPCDF	0.125 ng/Kg	0.125U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	1,2,3,4,7,8-HxCDD	0.0324 ng/Kg	0.0324U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	1,2,3,4,7,8-HXCDF	0.0313 ng/Kg	0.0313U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	1,2,3,6,7,8-HXCDD	0.0732 ng/Kg	0.0732U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-047-SA5DN-SB-10.0-11.0(RES)	1,2,3,6,7,8-HXCDF	0.0290 ng/Kg	0.0290U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	1,2,3,7,8,9-HXCDD	0.0783 ng/Kg	0.0783U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	1,2,3,7,8,9-HXCDF	0.0544 ng/Kg	0.0544U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	1,2,3,7,8-PECDD	0.0203 ng/Kg	0.0203U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	2,3,4,6,7,8-HXCDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	2,3,4,7,8-PECDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-047-SA5DN-SB-10.0-11.0(RES)	OCDF	0.435 ng/Kg	0.435U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	2.02 ng/Kg	2.02U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.192 ng/Kg	0.192U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0595 ng/Kg	0.0595U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0676 ng/Kg	0.0676U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.145 ng/Kg	0.145U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.166 ng/Kg	0.166U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0918 ng/Kg	0.0918U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0379 ng/Kg	0.0379U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0429 ng/Kg	0.0429U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0540 ng/Kg	0.0540U ng/Kg
SL-047-SA5DN-SB-4.0-5.0(RES)	OCDF	0.448 ng/Kg	0.448U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	2.20 ng/Kg	2.20U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.215 ng/Kg	0.215U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0645 ng/Kg	0.0645U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0281 ng/Kg	0.0281U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.144 ng/Kg	0.144U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.161 ng/Kg	0.161U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0470 ng/Kg	0.0470U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0341 ng/Kg	0.0341U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0695 ng/Kg	0.0695U ng/Kg
SL-054-SA5DN-SB-4.0-5.0(RES)	OCDF	0.754 ng/Kg	0.754U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.905 ng/Kg	0.905U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0297 ng/Kg	0.0297U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-054-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0246 ng/Kg	0.0246U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0419 ng/Kg	0.0419U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0214 ng/Kg	0.0214U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0676 ng/Kg	0.0676U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0373 ng/Kg	0.0373U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0347 ng/Kg	0.0347U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0232 ng/Kg	0.0232U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0425 ng/Kg	0.0425U ng/Kg
SL-054-SA5DN-SB-9.0-10.0(RES)	OCDF	0.210 ng/Kg	0.210U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.766 ng/Kg	0.766U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.569 ng/Kg	0.569U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.203 ng/Kg	0.203U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.108 ng/Kg	0.108U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.188 ng/Kg	0.188U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0983 ng/Kg	0.0983U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.159 ng/Kg	0.159U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.186 ng/Kg	0.186U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.121 ng/Kg	0.121U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.152 ng/Kg	0.152U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0276 ng/Kg	0.0276U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0446 ng/Kg	0.0446U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	OCDD	1.66 ng/Kg	1.66U ng/Kg
SL-057-SA5DN-SB-4.0-5.0(RES)	OCDF	0.753 ng/Kg	0.753U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.729 ng/Kg	0.729U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.542 ng/Kg	0.542U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0607 ng/Kg	0.0607U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.119 ng/Kg	0.119U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0539 ng/Kg	0.0539U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.131 ng/Kg	0.131U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0896 ng/Kg	0.0896U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0606 ng/Kg	0.0606U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-057-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0633 ng/Kg	0.0633U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.194 ng/Kg	0.194U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.116 ng/Kg	0.116U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	OCDD	1.87 ng/Kg	1.87U ng/Kg
SL-057-SA5DN-SB-9.0-10.0(RES)	OCDF	0.467 ng/Kg	0.467U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.740 ng/Kg	0.740U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.553 ng/Kg	0.553U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.126 ng/Kg	0.126U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0969 ng/Kg	0.0969U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0969 ng/Kg	0.0969U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0869 ng/Kg	0.0869U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0509 ng/Kg	0.0509U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.204 ng/Kg	0.204U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.137 ng/Kg	0.137U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	OCDD	2.25 ng/Kg	2.25U ng/Kg
SL-058-SA5DN-SB-4.0-5.0(RES)	OCDF	0.566 ng/Kg	0.566U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.874 ng/Kg	0.874U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.591 ng/Kg	0.591U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0952 ng/Kg	0.0952U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0274 ng/Kg	0.0274U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0788 ng/Kg	0.0788U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0853 ng/Kg	0.0853U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0769 ng/Kg	0.0769U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0629 ng/Kg	0.0629U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.176 ng/Kg	0.176U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-058-SA5DN-SB-9.0-10.0(RES)	OCDF	0.522 ng/Kg	0.522U ng/Kg
SL-202-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.903 ng/Kg	0.903U ng/Kg
SL-202-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0802 ng/Kg	0.0802U ng/Kg
SL-202-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0269 ng/Kg	0.0269U ng/Kg
SL-202-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0576 ng/Kg	0.0576U ng/Kg
SL-202-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0228 ng/Kg	0.0228U ng/Kg
SL-202-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.104 ng/Kg	0.104U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX102 Laboratory: LL

EDD Filename: DX102_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-202-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0802 ng/Kg	0.0802U ng/Kg
SL-202-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0280 ng/Kg	0.0280U ng/Kg
SL-202-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0265 ng/Kg	0.0265U ng/Kg
SL-202-SA5DN-SB-4.0-5.0(RES)	OCDF	0.191 ng/Kg	0.191U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.755 ng/Kg	0.755U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.127 ng/Kg	0.127U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.129 ng/Kg	0.129U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.156 ng/Kg	0.156U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.119 ng/Kg	0.119U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.225 ng/Kg	0.225U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.229 ng/Kg	0.229U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0626 ng/Kg	0.0626U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0527 ng/Kg	0.0527U ng/Kg
SL-202-SA5DN-SB-9.0-10.0(RES)	OCDF	0.251 ng/Kg	0.251U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

***Method:* 1613B**
***Matrix:* SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-033-SA5DN-SB-4.0-5.0MSD (SL-033-SA5DN-SB-4.0-5.0)	OCDD	-	-	40.00-135.00	30 (20.00)	OCDD	J (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-033-SA5DN-SB-4.0-5.0	DUP14-SA5DN-QC-061411			
MOISTURE	14.0	14.1	1		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-033-SA5DN-SB-4.0-5.0	DUP14-SA5DN-QC-061411			
1,2,3,4,7,8,9-HPCDF	0.0887	0.139	44	50.00	
1,2,3,7,8,9-HXCDD	0.300	0.410	31	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.259	0.394	41	50.00	
1,2,3,4,6,7,8-HPCDD	2.80	6.19	75	50.00	
1,2,3,4,6,7,8-HPCDF	0.170	1.34	155	50.00	
1,2,3,4,7,8-HxCDD	0.0715	0.150	71	50.00	
1,2,3,4,7,8-HXCDF	5.62 U	0.402	200	50.00	
1,2,3,6,7,8-HXCDD	0.264	0.449	52	50.00	
1,2,3,6,7,8-HXCDF	0.0548	0.304	139	50.00	
1,2,3,7,8-PECDD	5.62 U	0.278	200	50.00	J(all detects)
1,2,3,7,8-PECDF	0.0797	0.789	163	50.00	UJ(all non-detects)
2,3,4,6,7,8-HXCDF	0.0447	0.342	154	50.00	
2,3,4,7,8-PECDF	0.121	0.716	142	50.00	
2,3,7,8-TCDD	0.0244	0.0727	99	50.00	
2,3,7,8-TCDF	0.0326	0.198	143	50.00	
OCDD	14.7	54.0	114	50.00	
OCDF	0.446	1.57	112	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB17-SA5DN-SB-061411	1,2,3,4,6,7,8-HPCDD	JB	6.79	10.3	PQL	pg/L	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	1.28	10.3	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.293	10.3	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	2.43	10.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.775	10.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	1.74	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.464	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	1.18	10.3	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.376	10.3	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	3.47	10.3	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	1.37	10.3	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.212	2.05	PQL	pg/L	
	OCDD	JB	13.1	20.5	PQL	pg/L	
	OCDF	JB	6.35	20.5	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA5DN-QC-061411	1,2,3,4,6,7,8-HPCDF	JB	1.34	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.139	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.150	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.402	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.449	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.304	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.410	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.394	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.278	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.789	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.342	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.716	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0727	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.198	1.14	PQL	ng/Kg	
	OCDF	JB	1.57	11.4	PQL	ng/Kg	
SL-032-SA5DN-SB-10.0-11.0	1,2,3,4,6,7,8-HPCDD	JB	0.495	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.118	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0966	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0507	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0643	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.117	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0700	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.124	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.104	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0772	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0847	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0776	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.132	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0699	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0269	1.08	PQL	ng/Kg	
	OCDD	JB	0.938	10.8	PQL	ng/Kg	
	OCDF	JB	0.273	10.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-032-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.500	5.51	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.106	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0694	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.135	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.137	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.123	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.163	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.137	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.112	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.244	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.244	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0947	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.250	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0541	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0930	1.10	PQL	ng/Kg	
	OCDD	JB	1.52	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.161	11.0	PQL	ng/Kg	
SL-033-SA5DN-SB-11.0-12.0	1,2,3,4,6,7,8-HPCDD	JB	0.871	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.248	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.260	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.136	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.165	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.204	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.129	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.182	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.245	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.115	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.102	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.138	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.142	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0318	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0313	1.11	PQL	ng/Kg	
	OCDD	JB	3.84	11.1	PQL	ng/Kg	
	OCDF	JB	0.875	11.1	PQL	ng/Kg	
SL-033-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.80	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0887	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0715	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.264	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0548	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.300	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.259	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0797	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0447	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.121	5.62	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0244	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0326	1.12	PQL	ng/Kg	
	OCDF	JB	0.446	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-035-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.433	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0852	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0479	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0444	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0296	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0413	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0457	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0587	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0714	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0133	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0334	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0631	5.72	PQL	ng/Kg	
	OCDD	JB	1.91	11.4	PQL	ng/Kg	
	OCDF	JB	0.243	11.4	PQL	ng/Kg	
SL-035-SA5DN-SB-9.5-10.5	1,2,3,4,6,7,8-HPCDD	JB	0.581	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.584	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0895	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0313	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.108	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0605	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0805	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0778	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0740	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0241	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0423	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.172	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0868	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0188	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0180	1.11	PQL	ng/Kg	
	OCDD	JB	1.18	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.489	11.1	PQL	ng/Kg	
SL-044-SA5DN-SB-12.0-13.0	1,2,3,4,6,7,8-HPCDD	JB	1.02	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.600	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0976	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.109	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.232	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.138	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.192	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.157	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.113	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.166	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.316	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.229	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.242	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0564	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0421	1.10	PQL	ng/Kg	
	OCDD	JB	3.77	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.552	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-044-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.60	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.611	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0999	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0454	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.132	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.240	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.131	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.283	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.382	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0619	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.268	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.174	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.185	5.69	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0327	1.14	PQL	ng/Kg	
	OCDD	JB	11.2	11.4	PQL	ng/Kg	
	OCDF	JB	0.657	11.4	PQL	ng/Kg	
SL-047-SA5DN-SB-10.0-11.0	1,2,3,4,6,7,8-HPCDD	JB	1.18	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.125	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0460	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0324	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0313	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0732	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0290	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0783	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0544	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0203	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0368	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0497	5.27	PQL	ng/Kg	
	OCDF	JB	0.435	10.5	PQL	ng/Kg	
SL-047-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.02	5.61	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.192	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0595	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0676	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0497	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.145	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0433	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.166	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0918	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0379	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0429	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0540	5.61	PQL	ng/Kg	
	OCDF	JB	0.448	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-054-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.20	6.05	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.215	6.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0645	6.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0281	6.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0525	6.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.144	6.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0370	6.05	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.161	6.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.115	6.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0470	6.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0341	6.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0426	6.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0695	6.05	PQL	ng/Kg	
	OCDF	JB	0.754	12.1	PQL	ng/Kg	
SL-054-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.905	5.91	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0713	5.91	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0297	5.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0246	5.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0414	5.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0419	5.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0214	5.91	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0676	5.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0373	5.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0347	5.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0232	5.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0425	5.91	PQL	ng/Kg	
	OCDD	JB	7.71	11.8	PQL	ng/Kg	
	OCDF	JB	0.210	11.8	PQL	ng/Kg	
SL-057-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.766	5.74	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.569	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.203	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.108	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.188	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0983	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.146	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.159	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.186	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.121	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.120	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.190	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.152	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0276	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0446	1.15	PQL	ng/Kg	
	OCDD	JB	1.66	11.5	PQL	ng/Kg	
	OCDF	JB	0.753	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.729	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.542	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.121	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0607	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.119	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0539	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.116	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.131	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0896	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0606	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0633	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.194	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.116	5.66	PQL	ng/Kg	
	OCDD	JB	1.87	11.3	PQL	ng/Kg	
	OCDF	JB	0.467	11.3	PQL	ng/Kg	
SL-058-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.740	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.553	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.126	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.170	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0969	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0969	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0869	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0509	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.204	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.137	5.72	PQL	ng/Kg	
	OCDD	JB	2.25	11.4	PQL	ng/Kg	
	OCDF	JB	0.566	11.4	PQL	ng/Kg	
SL-058-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.874	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.591	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0952	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0274	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.146	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0788	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.108	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0853	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0769	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0314	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0629	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.176	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.103	5.72	PQL	ng/Kg	
	OCDD	JB	6.53	11.4	PQL	ng/Kg	
	OCDF	JB	0.522	11.4	PQL	ng/Kg	
SL-202-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.903	5.99	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0802	5.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0269	5.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0576	5.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0228	5.99	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.104	5.99	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0802	5.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0280	5.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0265	5.99	PQL	ng/Kg	
	OCDD	JB	8.40	12.0	PQL	ng/Kg	
	OCDF	JBQ	0.191	12.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX102 **Laboratory: LL**

EDD Filename: DX102_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-202-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.755	5.77	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.136	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0805	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.127	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.174	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.129	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.155	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.156	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.119	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.225	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.244	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.115	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.229	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0626	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0527	1.15	PQL	ng/Kg	
	OCDD	JB	5.76	11.5	PQL	ng/Kg	
	OCDF	JB	0.251	11.5	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX103

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-June-2011	DUP15-SA5DN-QC-061511	6317002	FD	METHOD	1613B	III
15-June-2011	SL-029-SA5DN-SB-4.0-5.0	6316992	N	METHOD	1613B	III
15-June-2011	SL-030-SA5DN-SB-4.0-5.0	6316993	N	METHOD	1613B	III
15-June-2011	SL-030-SA5DN-SB-4.0-5.0MS	6316994	MS	METHOD	1613B	III
15-June-2011	SL-030-SA5DN-SB-4.0-5.0MSD	6316995	MSD	METHOD	1613B	III
15-June-2011	SL-031-SA5DN-SB-4.0-5.0	6316996	N	METHOD	1613B	III
15-June-2011	SL-034-SA5DN-SB-4.0-5.0	6316997	N	METHOD	1613B	III
15-June-2011	SL-055-SA5DN-SB-4.0-5.0	6316998	N	METHOD	1613B	III
15-June-2011	SL-055-SA5DN-SB-9.0-10.0	6316999	N	METHOD	1613B	III
15-June-2011	SL-020-SA5DN-SB-3.5-4.5	6316991	N	METHOD	1613B	III
15-June-2011	SL-056-SA5DN-SB-9.0-10.0	6317001	N	METHOD	1613B	III
15-June-2011	EB18-SA5DN-SB-061511	6317003	EB	METHOD	1613B	III
15-June-2011	SL-056-SA5DN-SB-4.0-5.0	6317000	N	METHOD	1613B	III
16-June-2011	SL-059-SA5DN-SB-4.0-5.0	6318890	N	METHOD	1613B	III
16-June-2011	SL-059-SA5DN-SB-9.0-10.0	6318891	N	METHOD	1613B	III
16-June-2011	SL-061-SA5DN-SB-4.0-5.0	6318892	N	METHOD	1613B	III
16-June-2011	SL-061-SA5DN-SB-9.0-10.0	6318893	N	METHOD	1613B	III
16-June-2011	SL-062-SA5DN-SB-4.0-5.0	6318894	N	METHOD	1613B	III
17-June-2011	SL-051-SA8N-SB-7.5-8.5	6320629	N	METHOD	1613B	III
20-June-2011	SL-117-SA5DN-SB-4.0-5.0	6322255	N	METHOD	1613B	III
20-June-2011	SL-093-SA5DN-SB-4.0-5.0	6322253	N	METHOD	1613B	III
20-June-2011	SL-093-SA5DN-SB-9.0-10.0	6322254	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX103 Laboratory: LL

EDD Filename: DX103_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB18-SA5DN-SB-061511 *Collected:* 6/15/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.01	JBQ	0.329	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.86	JB	0.132	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.752	JBQ	0.165	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.227	JBQ	0.215	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.633	JB	0.162	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.620	JB	0.222	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.424	JBQ	0.154	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.691	JB	0.209	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.655	JBQ	0.171	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.392	JBQ	0.258	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.242	JBQ	0.155	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	1.13	JBQ	0.150	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.820	JBQ	0.146	MDL	10.1	PQL	pg/L	U	B
2,3,7,8-TCDF	0.436	JQ	0.243	MDL	2.02	PQL	pg/L	J	Z
OCDD	8.00	JB	0.291	MDL	20.2	PQL	pg/L	U	B
OCDF	1.94	JBQ	0.374	MDL	20.2	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.514	JB	0.0547	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.180	JB	0.0152	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0942	JBQ	0.0394	MDL	5.52	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0336	U	0.0336	MDL	5.52	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0724	JBQ	0.0247	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0436	JB	0.0323	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0645	JBQ	0.0195	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0481	JBQ	0.0322	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.111	J	0.0268	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0248	JBQ	0.0190	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.103	JB	0.0205	MDL	5.52	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP15-SA5DN-QC-061511 *Collected:* 6/15/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0732	JB	0.0206	MDL	5.52	PQL	ng/Kg	U	B
OCDD	1.13	JB	0.0510	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.632	JBQ	0.0966	MDL	11.0	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-020-SA5DN-SB-3.5-4.5 *Collected:* 6/15/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.525	JB	0.0399	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.183	JBQ	0.0132	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0437	JB	0.0246	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0443	JQ	0.0272	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0822	JBQ	0.0164	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0430	JBQ	0.0276	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0299	JBQ	0.0138	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0659	JBQ	0.0271	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0617	JQ	0.0189	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0555	JBQ	0.0270	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0370	JBQ	0.0132	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0761	JBQ	0.0148	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0766	JB	0.0138	MDL	5.47	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0328	JQ	0.0276	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	2.12	JB	0.0297	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.253	JBQ	0.0403	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.488	JBQ	0.0302	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.159	JB	0.00929	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0584	JBQ	0.0187	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0292	J	0.0219	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0532	JBQ	0.0138	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0406	JBQ	0.0212	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0359	JBQ	0.0114	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0466	JBQ	0.0220	MDL	5.42	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-029-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0440	JQ	0.0180	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0181	JBQ	0.0108	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0735	JBQ	0.0134	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0727	JBQ	0.0112	MDL	5.42	PQL	ng/Kg	U	B
OCDD	1.43	JB	0.0277	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.253	JBQ	0.0356	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-030-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.388	JB	0.0315	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JBQ	0.00989	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0475	JBQ	0.0239	MDL	5.65	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0294	JQ	0.0209	MDL	5.65	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0498	JBQ	0.0170	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0271	JBQ	0.0205	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0468	JBQ	0.0133	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0422	JBQ	0.0203	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0888	J	0.0207	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0186	JBQ	0.0121	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.132	JB	0.0141	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0653	JB	0.0133	MDL	5.65	PQL	ng/Kg	U	B
OCDD	0.985	JB	0.0262	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.255	JBQ	0.0447	MDL	11.3	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.547	JB	0.0267	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.284	JB	0.0139	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.134	JB	0.0204	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0876	JQ	0.0200	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.148	JB	0.0298	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.113	JBQ	0.0201	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.148	JB	0.0214	MDL	5.65	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-031-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 11:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.149	JB	0.0194	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.130	JQ	0.0195	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.106	JBQ	0.0265	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0591	JB	0.0112	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.166	JB	0.0139	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.159	JB	0.0126	MDL	5.65	PQL	ng/Kg	U	B
OCDD	2.80	JB	0.0205	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.536	JB	0.0351	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-034-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.468	JB	0.0310	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.243	JB	0.00875	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0713	JBQ	0.0192	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0324	JQ	0.0215	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0690	JBQ	0.0165	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0442	JB	0.0219	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0489	JBQ	0.0140	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0781	JB	0.0209	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0472	JQ	0.0181	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0311	JBQ	0.0239	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0455	JBQ	0.0124	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.133	JBQ	0.0145	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0751	JB	0.0130	MDL	5.52	PQL	ng/Kg	U	B
OCDD	1.21	JBQ	0.0267	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.311	JBQ	0.0430	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.15	JB	0.0220	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.404	JB	0.0416	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.170	JQ	0.0378	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.770	JB	0.0411	MDL	5.32	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-051-SA8N-SB-7.5-8.5 *Collected:* 6/17/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	1.14	JB	0.0391	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.441	JB	0.0326	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.812	JB	0.0378	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.718	JQ	0.0460	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.317	JB	0.0465	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.610	JB	0.0404	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.436	JB	0.0348	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.950	JB	0.0411	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0618	J	0.0279	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	8.55	JB	0.0550	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-055-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.662	JB	0.0321	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.186	JB	0.00797	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0692	JBQ	0.0189	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0682	J	0.0220	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.145	JB	0.0188	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0871	JBQ	0.0227	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.110	JB	0.0143	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.121	JB	0.0223	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.120	J	0.0205	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.150	JB	0.0274	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.137	JB	0.0132	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.146	JB	0.0166	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.167	JBQ	0.0143	MDL	5.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0518	JQ	0.0250	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0407	JQ	0.0234	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	4.66	JB	0.0268	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.300	JB	0.0443	MDL	11.6	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX103 Laboratory: LL

EDD Filename: DX103_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-055-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.32	JB	0.0698	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.371	JB	0.0280	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.145	JB	0.0466	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.165	JQ	0.0537	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.261	JB	0.0337	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.252	JB	0.0534	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.208	JB	0.0295	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.244	JBQ	0.0559	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.173	J	0.0391	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.330	JB	0.0407	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.335	JB	0.0174	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.208	JBQ	0.0321	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.294	JBQ	0.0172	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0994	JQ	0.0281	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0549	JQ	0.0265	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	0.495	JB	0.0577	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-056-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.614	JB	0.0449	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.275	JB	0.0147	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.137	JB	0.0322	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.157	JQ	0.0342	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.224	JBQ	0.0219	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.189	JB	0.0341	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.170	JB	0.0170	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.204	JB	0.0330	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.193	JQ	0.0251	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.373	JB	0.0343	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.340	JB	0.0134	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.222	JBQ	0.0194	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.311	JB	0.0135	MDL	5.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0908	J	0.0257	MDL	1.16	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 Laboratory: LL

EDD Filename: DX103_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-056-SA5DN-SB-4.0-5.0 *Collected:* 6/15/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	1.51	JB	0.0284	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.391	JB	0.0443	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-056-SA5DN-SB-9.0-10.0 *Collected:* 6/15/2011 3:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.673	JB	0.0412	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.211	JBQ	0.0128	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.113	JB	0.0336	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.102	JQ	0.0283	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.138	JBQ	0.0246	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.140	JBQ	0.0285	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.103	JB	0.0186	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.131	JB	0.0277	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.124	J	0.0271	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.186	JBQ	0.0287	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.234	JB	0.0125	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.190	JB	0.0195	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.202	JB	0.0145	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0380	JQ	0.0233	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0625	JQ	0.0240	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	2.15	JB	0.0320	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.424	JBQ	0.0632	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-059-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.541	JBQ	0.0351	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.159	JBQ	0.00889	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0436	JBQ	0.0292	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0575	JB	0.0186	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0800	JBQ	0.0210	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0357	JBQ	0.0132	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.114	JBQ	0.0201	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.162	JQ	0.0245	MDL	5.58	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-059-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 8:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0687	JBQ	0.0130	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0998	JB	0.0150	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0683	JBQ	0.0147	MDL	5.58	PQL	ng/Kg	U	B
OCDD	1.73	JB	0.0263	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.415	JBQ	0.0739	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-059-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.453	JB	0.0364	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JBQ	0.00945	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0509	JBQ	0.0314	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0298	JQ	0.0268	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0608	JBQ	0.0275	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0376	JBQ	0.0148	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0445	JBQ	0.0251	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0569	JQ	0.0257	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0239	JB	0.0126	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0977	JBQ	0.0158	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0822	JB	0.0161	MDL	5.68	PQL	ng/Kg	U	B
OCDD	1.65	JBQ	0.0305	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.514	JB	0.0803	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-061-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.489	JB	0.0348	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.143	JB	0.00911	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0820	JBQ	0.0261	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0351	JBQ	0.0174	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.154	JBQ	0.0225	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0487	JB	0.0134	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.223	JBQ	0.0218	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.388	JQ	0.0209	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0556	JB	0.0326	MDL	5.72	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-061-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0760	JBQ	0.0127	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.102	JBQ	0.0154	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0592	JB	0.0143	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0295	JQ	0.0242	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	1.03	JB	0.0262	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.332	JBQ	0.0579	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-061-SA5DN-SB-9.0-10.0 *Collected:* 6/16/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.478	JB	0.0340	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.208	JB	0.0126	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0444	JBQ	0.0219	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0538	J	0.0253	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0897	JBQ	0.0190	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0654	JBQ	0.0254	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0882	JBQ	0.0150	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.109	JBQ	0.0258	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0810	J	0.0180	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.121	JB	0.0293	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.109	JBQ	0.0132	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.140	JBQ	0.0145	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.129	JBQ	0.0138	MDL	5.65	PQL	ng/Kg	U	B
OCDD	1.02	JB	0.0281	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.272	JB	0.0404	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-062-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.24	JB	0.0392	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.278	JB	0.0144	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0848	JB	0.0223	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0906	J	0.0315	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0986	JBQ	0.0223	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.175	JB	0.0310	MDL	5.87	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-062-SA5DN-SB-4.0-5.0 *Collected:* 6/16/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.109	JBQ	0.0186	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.164	JBQ	0.0299	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.176	JQ	0.0194	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.167	JBQ	0.0309	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.162	JB	0.0144	MDL	5.87	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.134	JB	0.0160	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.178	JBQ	0.0153	MDL	5.87	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0749	JQ	0.0296	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0274	JQ	0.0258	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	0.461	JBQ	0.0488	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-093-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.762	JB	0.0781	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.246	JB	0.0249	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.239	JBQ	0.0864	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.141	JQ	0.0583	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.162	JB	0.0432	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.210	JB	0.0560	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.122	JBQ	0.0313	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.242	JBQ	0.0541	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.269	JQ	0.0609	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.161	JBQ	0.0481	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.173	JBQ	0.0185	MDL	5.88	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.203	JBQ	0.0347	MDL	5.88	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.153	JBQ	0.0204	MDL	5.88	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0488	JQ	0.0341	MDL	1.18	PQL	ng/Kg	J	Z
OCDD	3.91	JB	0.0546	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.859	JB	0.121	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-093-SA5DN-SB-9.0-10.0 *Collected:* 6/20/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.554	JBQ	0.0504	MDL	5.52	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory:** LL

EDD Filename: DX103_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-093-SA5DN-SB-9.0-10.0 *Collected:* 6/20/2011 12:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.204	JBQ	0.0169	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.166	JBQ	0.0625	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0708	JBQ	0.0263	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0721	JBQ	0.0359	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0589	JBQ	0.0180	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0990	JBQ	0.0356	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.132	J	0.0403	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0277	JBQ	0.0123	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.112	JBQ	0.0218	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0916	JBQ	0.0147	MDL	5.52	PQL	ng/Kg	U	B
OCDD	1.95	JB	0.0410	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.471	JB	0.0995	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-117-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 2:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.889	JB	0.0448	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.186	JB	0.0144	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.104	JBQ	0.0360	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0487	JQ	0.0283	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0507	JBQ	0.0249	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0945	JB	0.0282	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0422	JBQ	0.0187	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.102	JBQ	0.0276	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.172	JQ	0.0251	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0416	JBQ	0.0117	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.143	JBQ	0.0180	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0885	JBQ	0.0132	MDL	5.47	PQL	ng/Kg	U	B
OCDD	7.88	JB	0.0337	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.476	JB	0.0649	MDL	10.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX103

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1860B370312	7/8/2011 3:12:00 AM	1,2,3,4,6,7,8-HPCDD	5.77 pg/L	EB18-SA5DN-SB-061511
		1,2,3,4,6,7,8-HPCDF	3.35 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.08 pg/L	
		1,2,3,4,7,8-HxCDD	0.514 pg/L	
		1,2,3,4,7,8-HXCDF	0.682 pg/L	
		1,2,3,6,7,8-HXCDD	0.924 pg/L	
		1,2,3,6,7,8-HXCDF	0.769 pg/L	
		1,2,3,7,8,9-HXCDD	0.771 pg/L	
		1,2,3,7,8,9-HXCDF	1.09 pg/L	
		1,2,3,7,8-PECDD	0.288 pg/L	
		1,2,3,7,8-PECDF	0.586 pg/L	
		2,3,4,6,7,8-HXCDF	1.21 pg/L	
		2,3,4,7,8-PECDF	1.01 pg/L	
		2,3,7,8-TCDD	0.502 pg/L	
		OCDD	11.0 pg/L	
		OCDF	3.55 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB18-SA5DN-SB-061511(RES)	1,2,3,4,6,7,8-HPCDD	5.01 pg/L	5.01U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,4,6,7,8-HPCDF	2.86 pg/L	2.86U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,4,7,8,9-HPCDF	0.752 pg/L	0.752U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,4,7,8-HxCDD	0.227 pg/L	0.227U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,4,7,8-HXCDF	0.633 pg/L	0.633U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,6,7,8-HXCDD	0.620 pg/L	0.620U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,6,7,8-HXCDF	0.424 pg/L	0.424U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,7,8,9-HXCDD	0.691 pg/L	0.691U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,7,8,9-HXCDF	0.655 pg/L	0.655U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,7,8-PECDD	0.392 pg/L	0.392U pg/L
EB18-SA5DN-SB-061511(RES)	1,2,3,7,8-PECDF	0.242 pg/L	0.242U pg/L
EB18-SA5DN-SB-061511(RES)	2,3,4,6,7,8-HXCDF	1.13 pg/L	1.13U pg/L
EB18-SA5DN-SB-061511(RES)	2,3,4,7,8-PECDF	0.820 pg/L	0.820U pg/L
EB18-SA5DN-SB-061511(RES)	OCDD	8.00 pg/L	8.00U pg/L
EB18-SA5DN-SB-061511(RES)	OCDF	1.94 pg/L	1.94U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1810B371937	7/1/2011 7:37:00 PM	1,2,3,4,6,7,8-HPCDD	0.484 ng/Kg	DUP15-SA5DN-QC-061511
		1,2,3,4,6,7,8-HPCDF	0.258 ng/Kg	SL-020-SA5DN-SB-3.5-4.5
		1,2,3,4,7,8,9-HPCDF	0.0706 ng/Kg	SL-029-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0787 ng/Kg	SL-030-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0594 ng/Kg	SL-031-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0742 ng/Kg	SL-034-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0586 ng/Kg	SL-051-SA8N-SB-7.5-8.5
		1,2,3,7,8-PECDD	0.0530 ng/Kg	SL-055-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0247 ng/Kg	SL-055-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.140 ng/Kg	SL-056-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0736 ng/Kg	SL-056-SA5DN-SB-9.0-10.0
		OCDD	0.797 ng/Kg	SL-059-SA5DN-SB-4.0-5.0
		OCDF	0.395 ng/Kg	SL-059-SA5DN-SB-9.0-10.0
				SL-061-SA5DN-SB-4.0-5.0
				SL-061-SA5DN-SB-9.0-10.0
				SL-062-SA5DN-SB-4.0-5.0
				SL-093-SA5DN-SB-4.0-5.0
				SL-093-SA5DN-SB-9.0-10.0
				SL-117-SA5DN-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP15-SA5DN-QC-061511(RES)	1,2,3,4,6,7,8-HPCDD	0.514 ng/Kg	0.514U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,4,6,7,8-HPCDF	0.180 ng/Kg	0.180U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,4,7,8,9-HPCDF	0.0942 ng/Kg	0.0942U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,4,7,8-HXCDF	0.0724 ng/Kg	0.0724U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,6,7,8-HXCDD	0.0436 ng/Kg	0.0436U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,6,7,8-HXCDF	0.0645 ng/Kg	0.0645U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,7,8,9-HXCDD	0.0481 ng/Kg	0.0481U ng/Kg
DUP15-SA5DN-QC-061511(RES)	1,2,3,7,8-PECDF	0.0248 ng/Kg	0.0248U ng/Kg
DUP15-SA5DN-QC-061511(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
DUP15-SA5DN-QC-061511(RES)	2,3,4,7,8-PECDF	0.0732 ng/Kg	0.0732U ng/Kg
DUP15-SA5DN-QC-061511(RES)	OCDD	1.13 ng/Kg	1.13U ng/Kg
DUP15-SA5DN-QC-061511(RES)	OCDF	0.632 ng/Kg	0.632U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.525 ng/Kg	0.525U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.183 ng/Kg	0.183U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0437 ng/Kg	0.0437U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0822 ng/Kg	0.0822U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0430 ng/Kg	0.0430U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0299 ng/Kg	0.0299U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0659 ng/Kg	0.0659U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0555 ng/Kg	0.0555U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0370 ng/Kg	0.0370U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0761 ng/Kg	0.0761U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0766 ng/Kg	0.0766U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	OCDD	2.12 ng/Kg	2.12U ng/Kg
SL-020-SA5DN-SB-3.5-4.5(RES)	OCDF	0.253 ng/Kg	0.253U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.488 ng/Kg	0.488U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.159 ng/Kg	0.159U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0584 ng/Kg	0.0584U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0532 ng/Kg	0.0532U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0406 ng/Kg	0.0406U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0359 ng/Kg	0.0359U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0466 ng/Kg	0.0466U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0181 ng/Kg	0.0181U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0735 ng/Kg	0.0735U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	OCDD	1.43 ng/Kg	1.43U ng/Kg
SL-029-SA5DN-SB-4.0-5.0(RES)	OCDF	0.253 ng/Kg	0.253U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.388 ng/Kg	0.388U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0475 ng/Kg	0.0475U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0271 ng/Kg	0.0271U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0468 ng/Kg	0.0468U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0422 ng/Kg	0.0422U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0186 ng/Kg	0.0186U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.132 ng/Kg	0.132U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0653 ng/Kg	0.0653U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	OCDD	0.985 ng/Kg	0.985U ng/Kg
SL-030-SA5DN-SB-4.0-5.0(RES)	OCDF	0.255 ng/Kg	0.255U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.547 ng/Kg	0.547U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.284 ng/Kg	0.284U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.148 ng/Kg	0.148U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.113 ng/Kg	0.113U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.148 ng/Kg	0.148U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.149 ng/Kg	0.149U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.106 ng/Kg	0.106U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0591 ng/Kg	0.0591U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.166 ng/Kg	0.166U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.159 ng/Kg	0.159U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	OCDD	2.80 ng/Kg	2.80U ng/Kg
SL-031-SA5DN-SB-4.0-5.0(RES)	OCDF	0.536 ng/Kg	0.536U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.468 ng/Kg	0.468U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.243 ng/Kg	0.243U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0690 ng/Kg	0.0690U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0442 ng/Kg	0.0442U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0781 ng/Kg	0.0781U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0311 ng/Kg	0.0311U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0751 ng/Kg	0.0751U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-034-SA5DN-SB-4.0-5.0(RES)	OCDF	0.311 ng/Kg	0.311U ng/Kg
SL-051-SA8N-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.436 ng/Kg	0.436U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.662 ng/Kg	0.662U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.186 ng/Kg	0.186U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0692 ng/Kg	0.0692U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0871 ng/Kg	0.0871U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.121 ng/Kg	0.121U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.150 ng/Kg	0.150U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.146 ng/Kg	0.146U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.167 ng/Kg	0.167U ng/Kg
SL-055-SA5DN-SB-4.0-5.0(RES)	OCDF	0.300 ng/Kg	0.300U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.32 ng/Kg	1.32U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.371 ng/Kg	0.371U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.261 ng/Kg	0.261U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.252 ng/Kg	0.252U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.208 ng/Kg	0.208U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.244 ng/Kg	0.244U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.208 ng/Kg	0.208U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.294 ng/Kg	0.294U ng/Kg
SL-055-SA5DN-SB-9.0-10.0(RES)	OCDF	0.495 ng/Kg	0.495U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.614 ng/Kg	0.614U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.275 ng/Kg	0.275U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.137 ng/Kg	0.137U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.224 ng/Kg	0.224U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.189 ng/Kg	0.189U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.204 ng/Kg	0.204U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.222 ng/Kg	0.222U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.311 ng/Kg	0.311U ng/Kg
SL-056-SA5DN-SB-4.0-5.0(RES)	OCDD	1.51 ng/Kg	1.51U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 Laboratory: LL

EDD Filename: DX103_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-056-SA5DN-SB-4.0-5.0(RES)	OCDF	0.391 ng/Kg	0.391U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.673 ng/Kg	0.673U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.211 ng/Kg	0.211U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.140 ng/Kg	0.140U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.131 ng/Kg	0.131U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.186 ng/Kg	0.186U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.202 ng/Kg	0.202U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	OCDD	2.15 ng/Kg	2.15U ng/Kg
SL-056-SA5DN-SB-9.0-10.0(RES)	OCDF	0.424 ng/Kg	0.424U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.541 ng/Kg	0.541U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.159 ng/Kg	0.159U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0436 ng/Kg	0.0436U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0575 ng/Kg	0.0575U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0800 ng/Kg	0.0800U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0357 ng/Kg	0.0357U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0687 ng/Kg	0.0687U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0683 ng/Kg	0.0683U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	OCDD	1.73 ng/Kg	1.73U ng/Kg
SL-059-SA5DN-SB-4.0-5.0(RES)	OCDF	0.415 ng/Kg	0.415U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.453 ng/Kg	0.453U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0509 ng/Kg	0.0509U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0608 ng/Kg	0.0608U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0376 ng/Kg	0.0376U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0445 ng/Kg	0.0445U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0977 ng/Kg	0.0977U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0822 ng/Kg	0.0822U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	OCDD	1.65 ng/Kg	1.65U ng/Kg
SL-059-SA5DN-SB-9.0-10.0(RES)	OCDF	0.514 ng/Kg	0.514U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.489 ng/Kg	0.489U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.143 ng/Kg	0.143U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0820 ng/Kg	0.0820U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0351 ng/Kg	0.0351U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.154 ng/Kg	0.154U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.223 ng/Kg	0.223U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0556 ng/Kg	0.0556U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0760 ng/Kg	0.0760U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0592 ng/Kg	0.0592U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	OCDD	1.03 ng/Kg	1.03U ng/Kg
SL-061-SA5DN-SB-4.0-5.0(RES)	OCDF	0.332 ng/Kg	0.332U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.478 ng/Kg	0.478U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0444 ng/Kg	0.0444U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0897 ng/Kg	0.0897U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0654 ng/Kg	0.0654U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0882 ng/Kg	0.0882U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.121 ng/Kg	0.121U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.109 ng/Kg	0.109U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	OCDD	1.02 ng/Kg	1.02U ng/Kg
SL-061-SA5DN-SB-9.0-10.0(RES)	OCDF	0.272 ng/Kg	0.272U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.24 ng/Kg	1.24U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.278 ng/Kg	0.278U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0848 ng/Kg	0.0848U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0986 ng/Kg	0.0986U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.175 ng/Kg	0.175U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.164 ng/Kg	0.164U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.167 ng/Kg	0.167U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.178 ng/Kg	0.178U ng/Kg
SL-062-SA5DN-SB-4.0-5.0(RES)	OCDF	0.461 ng/Kg	0.461U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.762 ng/Kg	0.762U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.246 ng/Kg	0.246U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.239 ng/Kg	0.239U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.210 ng/Kg	0.210U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.242 ng/Kg	0.242U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-093-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.161 ng/Kg	0.161U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.203 ng/Kg	0.203U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.153 ng/Kg	0.153U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	OCDD	3.91 ng/Kg	3.91U ng/Kg
SL-093-SA5DN-SB-4.0-5.0(RES)	OCDF	0.859 ng/Kg	0.859U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.554 ng/Kg	0.554U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.204 ng/Kg	0.204U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0708 ng/Kg	0.0708U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0721 ng/Kg	0.0721U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0589 ng/Kg	0.0589U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0990 ng/Kg	0.0990U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0916 ng/Kg	0.0916U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	OCDD	1.95 ng/Kg	1.95U ng/Kg
SL-093-SA5DN-SB-9.0-10.0(RES)	OCDF	0.471 ng/Kg	0.471U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.889 ng/Kg	0.889U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.186 ng/Kg	0.186U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0507 ng/Kg	0.0507U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0945 ng/Kg	0.0945U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0416 ng/Kg	0.0416U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0885 ng/Kg	0.0885U ng/Kg
SL-117-SA5DN-SB-4.0-5.0(RES)	OCDF	0.476 ng/Kg	0.476U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-030-SA5DN-SB-4.0-5.0	DUP15-SA5DN-QC-061511			
MOISTURE	13.0	12.1	7		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-030-SA5DN-SB-4.0-5.0	DUP15-SA5DN-QC-061511			
1,2,3,4,6,7,8-HPCDD	0.388	0.514	28	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.195	0.180	8	50.00	
1,2,3,4,7,8-HXCDF	0.0498	0.0724	37	50.00	
1,2,3,6,7,8-HXCDD	0.0271	0.0436	47	50.00	
1,2,3,6,7,8-HXCDF	0.0468	0.0645	32	50.00	
1,2,3,7,8,9-HXCDD	0.0422	0.0481	13	50.00	
1,2,3,7,8,9-HXCDF	0.0888	0.111	22	50.00	
1,2,3,7,8-PECDF	0.0186	0.0248	29	50.00	
2,3,4,6,7,8-HXCDF	0.132	0.103	25	50.00	
2,3,4,7,8-PECDF	0.0653	0.0732	11	50.00	
OCDD	0.985	1.13	14	50.00	
1,2,3,4,7,8,9-HPCDF	0.0475	0.0942	66	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HxCDD	0.0294	5.52 U	200	50.00	
OCDF	0.255	0.632	85	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB18-SA5DN-SB-061511	1,2,3,4,6,7,8-HPCDD	JBQ	5.01	10.1	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.86	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.752	10.1	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.227	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.633	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.620	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.424	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.691	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.655	10.1	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.392	10.1	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.242	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	1.13	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.820	10.1	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.436	2.02	PQL	pg/L	
	OCDD	JB	8.00	20.2	PQL	pg/L	
	OCDF	JBQ	1.94	20.2	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA5DN-QC-061511	1,2,3,4,6,7,8-HPCDD	JB	0.514	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.180	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0942	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0724	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0436	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0645	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0481	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.111	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0248	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.103	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0732	5.52	PQL	ng/Kg	
	OCDD	JB	1.13	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.632	11.0	PQL	ng/Kg	
SL-020-SA5DN-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.525	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.183	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0437	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0443	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0822	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0430	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0299	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0659	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0617	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0555	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0370	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0761	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0766	5.47	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0328	1.09	PQL	ng/Kg	
	OCDD	JB	2.12	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.253	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-029-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.488	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.159	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0584	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0292	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0532	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0406	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0359	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0466	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0440	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0181	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0735	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0727	5.42	PQL	ng/Kg	
	OCDD	JB	1.43	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.253	10.8	PQL	ng/Kg	
SL-030-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.388	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.195	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0475	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0294	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0498	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0271	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0468	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0422	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0888	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0186	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.132	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0653	5.65	PQL	ng/Kg	
	OCDD	JB	0.985	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.255	11.3	PQL	ng/Kg	
SL-031-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.547	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.284	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.134	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0876	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.148	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.113	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.148	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.149	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.130	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.106	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0591	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.166	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.159	5.65	PQL	ng/Kg	
	OCDD	JB	2.80	11.3	PQL	ng/Kg	
	OCDF	JB	0.536	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-034-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.468	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.243	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0713	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0324	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0690	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0442	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0489	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0781	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0472	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0311	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0455	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.133	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0751	5.52	PQL	ng/Kg	
	OCDD	JBQ	1.21	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.311	11.0	PQL	ng/Kg	
SL-051-SA8N-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDF	JB	4.15	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.404	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.170	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.770	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.14	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.441	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.812	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.718	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.317	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.610	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.436	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.950	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0618	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.463	1.06	PQL	ng/Kg	
	OCDF	JB	8.55	10.6	PQL	ng/Kg	
SL-055-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.662	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.186	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0692	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0682	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.145	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0871	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.110	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.121	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.120	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.150	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.137	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.146	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.167	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0518	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0407	1.16	PQL	ng/Kg	
	OCDD	JB	4.66	11.6	PQL	ng/Kg	
	OCDF	JB	0.300	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.32	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.371	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.145	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.165	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.261	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.252	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.208	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.244	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.173	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.330	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.335	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.208	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.294	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0994	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0549	1.11	PQL	ng/Kg	
	OCDF	JB	0.495	11.1	PQL	ng/Kg	
SL-056-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.614	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.275	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.137	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.157	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.224	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.189	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.170	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.204	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.193	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.373	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.340	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.222	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.311	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0908	1.16	PQL	ng/Kg	
	OCDD	JB	1.51	11.6	PQL	ng/Kg	
	OCDF	JB	0.391	11.6	PQL	ng/Kg	
SL-056-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.673	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.211	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.113	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.102	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.138	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.140	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.103	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.131	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.124	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.186	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.234	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.190	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.202	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0380	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0625	1.13	PQL	ng/Kg	
	OCDD	JB	2.15	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.424	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-059-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.541	5.58	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.159	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0436	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0575	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0800	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0357	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.114	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.162	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0687	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0998	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0683	5.58	PQL	ng/Kg	
	OCDD	JB	1.73	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.415	11.2	PQL	ng/Kg	
SL-059-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.453	5.68	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.185	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0509	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0298	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0608	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0376	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0445	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0569	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0239	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0977	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0822	5.68	PQL	ng/Kg	
	OCDD	JBQ	1.65	11.4	PQL	ng/Kg	
	OCDF	JB	0.514	11.4	PQL	ng/Kg	
SL-061-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.489	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.143	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0820	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0351	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.154	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0487	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.223	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.388	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0556	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0760	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.102	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0592	5.72	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0295	1.14	PQL	ng/Kg	
	OCDD	JB	1.03	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.332	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-061-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.478	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.208	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0444	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0538	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0897	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0654	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0882	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.109	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.0810	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.121	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.109	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.140	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.129	5.65	PQL	ng/Kg	
	OCDD	JB	1.02	11.3	PQL	ng/Kg	
	OCDF	JB	0.272	11.3	PQL	ng/Kg	
SL-062-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.24	5.87	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.278	5.87	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0848	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0906	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0986	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.175	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.109	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.164	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.176	5.87	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.167	5.87	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.162	5.87	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.134	5.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.178	5.87	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0749	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0274	1.17	PQL	ng/Kg	
	OCDF	JBQ	0.461	11.7	PQL	ng/Kg	
SL-093-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.762	5.88	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.246	5.88	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.239	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.141	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.162	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.210	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.122	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.242	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.269	5.88	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.161	5.88	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.173	5.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.203	5.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.153	5.88	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0488	1.18	PQL	ng/Kg	
	OCDD	JB	3.91	11.8	PQL	ng/Kg	
	OCDF	JB	0.859	11.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX103 **Laboratory: LL**

EDD Filename: DX103_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-093-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.554	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.204	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.166	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0708	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0721	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0589	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0990	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.132	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0277	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.112	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0916	5.52	PQL	ng/Kg	
	OCDD	JB	1.95	11.0	PQL	ng/Kg	
	OCDF	JB	0.471	11.0	PQL	ng/Kg	
SL-117-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.889	5.47	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.186	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.104	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0487	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0507	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0945	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0422	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.102	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.172	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0416	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.143	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0885	5.47	PQL	ng/Kg	
	OCDD	JB	7.88	10.9	PQL	ng/Kg	
	OCDF	JB	0.476	10.9	PQL	ng/Kg	

LDC #: 16850L

VALIDATION FINDINGS WORKSHEET
Overall Assessment of Data

Page: 1 of 1
Reviewer: CR
2nd Reviewer: LW

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

All available information pertaining to the data were reviewed using professional judgement to compliment the determination of the overall quality of the data.

(Y) N N/A Was the overall quality and usability of the data acceptable?

#	Date	Sample ID	Finding	~~Associated Samples~~ Column	Qualifications
		SL-051-SA&N-SB-7.5-8.5	2,3,7,8-TCDF	SP2331	R/A

Comments: _____

SAMPLE DELIVERY GROUP

DX104

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-June-2011	SL-119-SA5DN-SB-4.0-5.0	6322257	N	METHOD	1613B	III
20-June-2011	SL-118-SA5DN-SB-4.0-5.0	6322256	N	METHOD	1613B	III
21-June-2011	SL-125-SA5DN-SB-4.0-5.0	6323498	N	METHOD	1613B	III
21-June-2011	SL-097-SA5DN-SB-4.0-5.0	6323489	N	METHOD	1613B	III
21-June-2011	SL-097-SA5DN-SB-8.5-9.5	6323490	N	METHOD	1613B	III
21-June-2011	SL-098-SA5DN-SB-4.0-5.0	6323491	N	METHOD	1613B	III
21-June-2011	SL-098-SA5DN-SB-7.0-8.0	6323492	N	METHOD	1613B	III
21-June-2011	SL-099-SA5DN-SB-4.0-5.0	6323493	N	METHOD	1613B	III
21-June-2011	SL-113-SA5DN-SB-4.0-5.0	6323494	N	METHOD	1613B	III
21-June-2011	SL-120-SA5DN-SB-4.0-5.0	6323495	N	METHOD	1613B	III
21-June-2011	SL-121-SA5DN-SB-8.0-9.0	6323497	N	METHOD	1613B	III
21-June-2011	SL-125-SA5DN-SB-9.0-10.0	6323499	N	METHOD	1613B	III
21-June-2011	SL-121-SA5DN-SB-4.0-5.0	6323496	N	METHOD	1613B	III
22-June-2011	SL-114-SA5DN-SB-4.0-5.0	6325717	N	METHOD	1613B	III
22-June-2011	SL-094-SA5DN-SB-4.0-5.0	6325709	N	METHOD	1613B	III
22-June-2011	SL-094-SA5DN-SB-9.0-10.0	6325710	N	METHOD	1613B	III
22-June-2011	SL-095-SA5DN-SB-4.0-5.0	6325711	N	METHOD	1613B	III
22-June-2011	SL-095-SA5DN-SB-9.0-10.0	6325712	N	METHOD	1613B	III
22-June-2011	SL-111-SA5DN-SB-4.0-5.0	6325713	N	METHOD	1613B	III
22-June-2011	SL-112-SA5DN-SB-4.0-5.0	6325714	N	METHOD	1613B	III
22-June-2011	SL-112-SA5DN-SB-4.0-5.0MS	6325715	MS	METHOD	1613B	III
22-June-2011	SL-112-SA5DN-SB-4.0-5.0MSD	6325716	MSD	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX104 Laboratory: LL

EDD Filename: DX104_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-094-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.724	JB	0.0201	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.234	JB	0.00729	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0657	JBQ	0.0148	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0530	JB	0.0141	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0918	JB	0.0134	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0613	JBQ	0.0142	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0736	JB	0.0112	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0786	JB	0.0134	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.117	J	0.0153	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0717	JBQ	0.0113	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0941	JB	0.00683	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.120	JB	0.0128	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0999	JB	0.00706	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0324	JBQ	0.0118	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0173	JBQ	0.0112	MDL	1.16	PQL	ng/Kg	U	B
OCDD	2.46	JB	0.0157	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.275	JB	0.0213	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-094-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.563	JB	0.0198	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.244	JB	0.00799	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0665	JBQ	0.0157	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0544	JB	0.0135	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.118	JBQ	0.0132	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0894	JBQ	0.0142	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0934	JB	0.0108	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0828	JB	0.0138	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.111	JQ	0.0152	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.120	JBQ	0.0120	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.140	JB	0.00671	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.130	JB	0.0120	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.154	JB	0.00706	MDL	5.75	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-094-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 9:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0244	JBQ	0.0120	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0304	JB	0.0108	MDL	1.15	PQL	ng/Kg	U	B
OCDD	2.05	JB	0.0127	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.284	JB	0.0216	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-095-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.38	JB	0.0336	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.356	JB	0.0141	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.144	JB	0.0245	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0475	JB	0.0217	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.108	JB	0.0178	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.168	JB	0.0223	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0850	JB	0.0158	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.227	JB	0.0213	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.363	J	0.0230	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0708	JB	0.0115	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.140	JB	0.00666	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.124	JB	0.0173	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.138	JBQ	0.00677	MDL	5.58	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0405	JB	0.0102	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0344	JBQ	0.0124	MDL	1.12	PQL	ng/Kg	U	B
OCDF	0.680	JB	0.0239	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-095-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.892	JB	0.0269	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.228	JB	0.00915	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0811	JBQ	0.0210	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0232	JB	0.0144	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0576	JB	0.0123	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0546	JBQ	0.0148	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0404	JB	0.00971	MDL	5.45	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 **Laboratory:** LL

EDD Filename: DX104_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-095-SA5DN-SB-9.0-10.0 *Collected:* 6/22/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.0578	JBQ	0.0142	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0983	JQ	0.0143	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0475	JB	0.0115	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0555	JB	0.00525	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0874	JB	0.0115	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0916	JB	0.00580	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0260	JBQ	0.0110	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0255	JBQ	0.0107	MDL	1.09	PQL	ng/Kg	U	B
OCDD	7.45	JB	0.0176	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.411	JBQ	0.0324	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-097-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.955	JB	0.0251	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.267	JB	0.00961	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0549	JB	0.0145	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0163	JBQ	0.0118	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0592	JBQ	0.00985	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0570	JBQ	0.0123	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0526	JBQ	0.00868	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0602	JB	0.0116	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0635	J	0.0106	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0171	JB	0.00973	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0231	JBQ	0.00563	MDL	5.86	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0799	JBQ	0.00961	MDL	5.86	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0812	JB	0.00528	MDL	5.86	PQL	ng/Kg	U	B
OCDD	9.03	JB	0.0206	MDL	11.7	PQL	ng/Kg	J	Z
OCDF	0.330	JB	0.0204	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-097-SA5DN-SB-8.5-9.5 *Collected:* 6/21/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.452	JB	0.0190	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.135	JB	0.00819	MDL	5.61	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 Laboratory: LL

EDD Filename: DX104_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-097-SA5DN-SB-8.5-9.5 *Collected:* 6/21/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0397	JBQ	0.0145	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0151	JBQ	0.0109	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0326	JBQ	0.00864	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0310	JBQ	0.0116	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0182	JB	0.00741	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0327	JB	0.0113	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0552	JBQ	0.00797	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0465	JB	0.00550	MDL	5.61	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0139	JBQ	0.0113	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0107	JBQ	0.00943	MDL	1.12	PQL	ng/Kg	U	B
OCDD	1.20	JB	0.0176	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.174	JB	0.0195	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-098-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.13	JB	0.0195	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.244	JB	0.0243	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.258	JB	0.0375	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.574	JB	0.0319	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.921	JB	0.0386	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.218	JB	0.0297	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.680	JB	0.0375	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.283	J	0.0318	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.168	JBQ	0.0172	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.374	JB	0.0320	MDL	5.84	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.251	JB	0.0306	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.628	JB	0.0296	MDL	5.84	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0432	JBQ	0.0106	MDL	1.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.303	JB	0.0523	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	11.1	JB	0.0201	MDL	11.7	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 **Laboratory:** LL

EDD Filename: DX104_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-098-SA5DN-SB-7.0-8.0 *Collected:* 6/21/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.60	JB	0.0321	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.347	JB	0.0132	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.145	JB	0.0193	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.101	JB	0.0206	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.158	JB	0.0174	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.148	JB	0.0208	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.136	JBQ	0.0149	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.153	JBQ	0.0205	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.189	J	0.0192	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.167	JBQ	0.0117	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.188	JB	0.00667	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.168	JB	0.0151	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.200	JB	0.00656	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0819	JBQ	0.0109	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0491	JBQ	0.00890	MDL	1.14	PQL	ng/Kg	U	B
OCDF	0.785	JB	0.0235	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-099-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.32	JB	0.0330	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.552	JB	0.0154	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.178	JB	0.0269	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.157	JB	0.0227	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.222	JB	0.0214	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.233	JB	0.0240	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.202	JBQ	0.0187	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.208	JB	0.0222	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.250	J	0.0242	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.253	JBQ	0.0139	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.266	JB	0.00800	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.214	JB	0.0206	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.273	JB	0.00822	MDL	5.61	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0848	JB	0.0120	MDL	1.12	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 **Laboratory:** LL

EDD Filename: DX104_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-099-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	1.42	JB	0.0284	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-111-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 3:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.872	JB	0.0287	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.220	JB	0.00831	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0592	JB	0.0189	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0491	JBQ	0.0124	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0442	JBQ	0.0141	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0347	JB	0.0100	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0704	JB	0.0129	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.105	J	0.0146	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0301	JB	0.00569	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0906	JBQ	0.0117	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0635	JBQ	0.00569	MDL	5.68	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0138	JB	0.0110	MDL	1.14	PQL	ng/Kg	U	B
OCDD	8.66	JB	0.0199	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.456	JB	0.0292	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.755	JB	0.0291	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.240	JBQ	0.00912	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0564	JBQ	0.0207	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0167	JBQ	0.0144	MDL	5.80	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0575	JB	0.0145	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0630	JBQ	0.0152	MDL	5.80	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0492	JB	0.0116	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.111	JB	0.0144	MDL	5.80	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.209	JQ	0.0171	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0183	JBQ	0.0127	MDL	5.80	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0408	JBQ	0.00667	MDL	5.80	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.108	JB	0.0135	MDL	5.80	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 Laboratory: LL

EDD Filename: DX104_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-112-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.0690	JB	0.00725	MDL	5.80	PQL	ng/Kg	U	B
OCDD	5.04	JB	0.0214	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.320	JB	0.0305	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-113-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.885	JB	0.0217	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.282	JB	0.00989	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0943	JB	0.0166	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0489	JB	0.0135	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.108	JB	0.0133	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0631	JB	0.0143	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.102	JB	0.0116	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0849	JB	0.0133	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.122	J	0.0147	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.109	JB	0.0122	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.149	JB	0.00727	MDL	5.88	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.150	JB	0.0125	MDL	5.88	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.156	JB	0.00715	MDL	5.88	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0531	JBQ	0.0106	MDL	1.18	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0577	JBQ	0.0101	MDL	1.18	PQL	ng/Kg	U	B
OCDD	3.60	JB	0.0180	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.338	JBQ	0.0203	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-114-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.675	JB	0.0196	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.192	JBQ	0.00732	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.143	JBQ	0.0176	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0699	JBQ	0.0148	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.112	JB	0.0168	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.128	JBQ	0.0150	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0961	JBQ	0.0134	MDL	5.43	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 Laboratory: LL

EDD Filename: DX104_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-114-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.234	JB	0.0141	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.420	J	0.0206	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0576	JBQ	0.0126	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.133	JB	0.00687	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.144	JB	0.0154	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.124	JBQ	0.00709	MDL	5.43	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0185	JBQ	0.0115	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0379	JBQ	0.0116	MDL	1.09	PQL	ng/Kg	U	B
OCDD	2.74	JB	0.0166	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.476	JBQ	0.0288	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-118-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.832	JB	0.0334	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JB	0.0132	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0449	JBQ	0.0213	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0172	JBQ	0.0161	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0507	JB	0.0111	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0388	JBQ	0.0169	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0415	JB	0.00976	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0823	JB	0.0162	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0560	JQ	0.0109	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0164	JB	0.0125	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0290	JBQ	0.00643	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0658	JBQ	0.00998	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0668	JBQ	0.00643	MDL	5.49	PQL	ng/Kg	U	B
OCDD	5.11	JB	0.0282	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.275	JB	0.0373	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-119-SA5DN-SB-4.0-5.0 *Collected:* 6/20/2011 3:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.30	JB	0.0297	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.307	JB	0.0120	MDL	5.70	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: **SL-119-SA5DN-SB-4.0-5.0** *Collected:* **6/20/2011 3:40:00** *Analysis Type:* **RES** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0594	JB	0.0183	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0282	JB	0.0140	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0514	JB	0.0118	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0806	JB	0.0148	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0485	JB	0.0107	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.102	JB	0.0139	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0745	JQ	0.0126	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0155	JBQ	0.0106	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0131	JB	0.00608	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0774	JB	0.0115	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0651	JB	0.00608	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0115	JB	0.0112	MDL	1.14	PQL	ng/Kg	U	B
OCDF	0.542	JB	0.0292	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: **SL-120-SA5DN-SB-4.0-5.0** *Collected:* **6/21/2011 8:50:00** *Analysis Type:* **RES** *Dilution:* **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.73	JB	0.0251	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.289	JB	0.0100	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0660	JBQ	0.0198	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0244	JBQ	0.0145	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0599	JBQ	0.0121	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0816	JBQ	0.0150	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0328	JB	0.00958	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0933	JBQ	0.0149	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0940	J	0.0130	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0392	JBQ	0.0120	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0556	JB	0.00665	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0864	JBQ	0.0104	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.103	JB	0.00710	MDL	5.62	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0226	JB	0.0120	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0254	JB	0.0124	MDL	1.12	PQL	ng/Kg	U	B
OCDF	0.589	JB	0.0236	MDL	11.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 **Laboratory:** LL

EDD Filename: DX104_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-121-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 9:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.33	JB	0.0220	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.259	JB	0.0109	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0453	JB	0.0184	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0189	JBQ	0.0144	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0377	JB	0.0140	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.103	JB	0.0151	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0337	JBQ	0.0126	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.140	JB	0.0147	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.184	J	0.0148	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0280	JBQ	0.0128	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0533	JB	0.00656	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0882	JB	0.0133	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0593	JBQ	0.00644	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0244	JBQ	0.0123	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0143	JBQ	0.0109	MDL	1.11	PQL	ng/Kg	U	B
OCDF	0.478	JB	0.0221	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.49	JB	0.0227	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.384	JB	0.00914	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0713	JBQ	0.0172	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0255	JBQ	0.0148	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0570	JBQ	0.0130	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0898	JBQ	0.0152	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0386	JBQ	0.0107	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0685	JB	0.0141	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0493	J	0.0154	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0248	JBQ	0.00956	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0468	JBQ	0.00627	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0859	JB	0.0123	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0826	JB	0.00659	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0211	JB	0.0103	MDL	1.05	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 Laboratory: LL

EDD Filename: DX104_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-121-SA5DN-SB-8.0-9.0 *Collected:* 6/21/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0146	JBQ	0.0135	MDL	1.05	PQL	ng/Kg	U	B
OCDF	0.899	JB	0.0185	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-125-SA5DN-SB-4.0-5.0 *Collected:* 6/21/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.49	JB	0.0218	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.602	JB	0.0104	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0811	JBQ	0.0213	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0255	JB	0.0124	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0783	JB	0.0168	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0850	JBQ	0.0127	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0490	JB	0.0136	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0606	JB	0.0124	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0720	JQ	0.0187	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0149	JBQ	0.00905	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.135	JB	0.0148	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0690	JBQ	0.00607	MDL	5.48	PQL	ng/Kg	U	B
OCDF	1.86	JB	0.0206	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-125-SA5DN-SB-9.0-10.0 *Collected:* 6/21/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.550	JB	0.0167	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.245	JB	0.00650	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0548	JBQ	0.0116	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.00861	JBQ	0.00842	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0485	JBQ	0.00917	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0288	JBQ	0.00885	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0429	JB	0.00768	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0350	JB	0.00810	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0511	JQ	0.0102	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0186	JBQ	0.00896	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0179	JB	0.00469	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0977	JBQ	0.00885	MDL	5.19	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 **Laboratory:** LL

EDD Filename: DX104_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-125-SA5DN-SB-9.0-10.0** ***Collected:*** **6/21/2011 10:25:00** ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
2,3,4,7,8-PECDF	0.0682	JBQ	0.00458	MDL	5.19	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0158	JB	0.00842	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0111	JBQ	0.00800	MDL	1.04	PQL	ng/Kg	U	B
OCDD	2.97	JB	0.0131	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.264	JB	0.0147	MDL	10.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX104

Method Blank Outlier Report

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1860B371611	7/7/2011 4:11:00 PM	1,2,3,4,6,7,8-HPCDD	0.466 ng/Kg	SL-094-SA5DN-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.243 ng/Kg	SL-094-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8,9-HPCDF	0.148 ng/Kg	SL-095-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0657 ng/Kg	SL-095-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0870 ng/Kg	SL-097-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0933 ng/Kg	SL-097-SA5DN-SB-8.5-9.5
		1,2,3,6,7,8-HXCDF	0.0562 ng/Kg	SL-098-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.104 ng/Kg	SL-098-SA5DN-SB-7.0-8.0
		1,2,3,7,8-PECDD	0.0431 ng/Kg	SL-099-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0402 ng/Kg	SL-111-SA5DN-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.104 ng/Kg	SL-112-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0783 ng/Kg	SL-113-SA5DN-SB-4.0-5.0
		2,3,7,8-TCDD	0.0195 ng/Kg	SL-114-SA5DN-SB-4.0-5.0
		2,3,7,8-TCDF	0.0194 ng/Kg	SL-118-SA5DN-SB-4.0-5.0
		OCDD	0.902 ng/Kg	SL-119-SA5DN-SB-4.0-5.0
		OCDF	0.280 ng/Kg	SL-120-SA5DN-SB-4.0-5.0
				SL-121-SA5DN-SB-4.0-5.0
				SL-121-SA5DN-SB-8.0-9.0
				SL-125-SA5DN-SB-4.0-5.0
				SL-125-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-094-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.724 ng/Kg	0.724U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.234 ng/Kg	0.234U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0657 ng/Kg	0.0657U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0530 ng/Kg	0.0530U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0918 ng/Kg	0.0918U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0613 ng/Kg	0.0613U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0736 ng/Kg	0.0736U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0786 ng/Kg	0.0786U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0717 ng/Kg	0.0717U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0941 ng/Kg	0.0941U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0999 ng/Kg	0.0999U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0324 ng/Kg	0.0324U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0173 ng/Kg	0.0173U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	OCDD	2.46 ng/Kg	2.46U ng/Kg
SL-094-SA5DN-SB-4.0-5.0(RES)	OCDF	0.275 ng/Kg	0.275U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.563 ng/Kg	0.563U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.244 ng/Kg	0.244U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0665 ng/Kg	0.0665U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0544 ng/Kg	0.0544U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0894 ng/Kg	0.0894U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0934 ng/Kg	0.0934U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0828 ng/Kg	0.0828U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-094-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.120 ng/Kg	0.120U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.140 ng/Kg	0.140U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.154 ng/Kg	0.154U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0304 ng/Kg	0.0304U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	OCDD	2.05 ng/Kg	2.05U ng/Kg
SL-094-SA5DN-SB-9.0-10.0(RES)	OCDF	0.284 ng/Kg	0.284U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.38 ng/Kg	1.38U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.356 ng/Kg	0.356U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.144 ng/Kg	0.144U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0475 ng/Kg	0.0475U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.168 ng/Kg	0.168U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.227 ng/Kg	0.227U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0708 ng/Kg	0.0708U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.140 ng/Kg	0.140U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.138 ng/Kg	0.138U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0405 ng/Kg	0.0405U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0344 ng/Kg	0.0344U ng/Kg
SL-095-SA5DN-SB-4.0-5.0(RES)	OCDF	0.680 ng/Kg	0.680U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.892 ng/Kg	0.892U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.228 ng/Kg	0.228U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0232 ng/Kg	0.0232U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0576 ng/Kg	0.0576U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0546 ng/Kg	0.0546U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0578 ng/Kg	0.0578U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0475 ng/Kg	0.0475U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0555 ng/Kg	0.0555U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0874 ng/Kg	0.0874U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0916 ng/Kg	0.0916U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0260 ng/Kg	0.0260U ng/Kg
SL-095-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0255 ng/Kg	0.0255U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-095-SA5DN-SB-9.0-10.0(RES)	OCDF	0.411 ng/Kg	0.411U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.955 ng/Kg	0.955U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.267 ng/Kg	0.267U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0549 ng/Kg	0.0549U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0163 ng/Kg	0.0163U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0592 ng/Kg	0.0592U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0602 ng/Kg	0.0602U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0171 ng/Kg	0.0171U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0231 ng/Kg	0.0231U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0799 ng/Kg	0.0799U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-097-SA5DN-SB-4.0-5.0(RES)	OCDF	0.330 ng/Kg	0.330U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	1,2,3,4,6,7,8-HPCDD	0.452 ng/Kg	0.452U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	1,2,3,4,6,7,8-HPCDF	0.135 ng/Kg	0.135U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0397 ng/Kg	0.0397U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	1,2,3,4,7,8-HxCDD	0.0151 ng/Kg	0.0151U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	1,2,3,4,7,8-HXCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	1,2,3,6,7,8-HXCDD	0.0310 ng/Kg	0.0310U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	1,2,3,6,7,8-HXCDF	0.0182 ng/Kg	0.0182U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	1,2,3,7,8,9-HXCDD	0.0327 ng/Kg	0.0327U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	2,3,4,6,7,8-HXCDF	0.0552 ng/Kg	0.0552U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	2,3,4,7,8-PECDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	2,3,7,8-TCDD	0.0139 ng/Kg	0.0139U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	2,3,7,8-TCDF	0.0107 ng/Kg	0.0107U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	OCDD	1.20 ng/Kg	1.20U ng/Kg
SL-097-SA5DN-SB-8.5-9.5(RES)	OCDF	0.174 ng/Kg	0.174U ng/Kg
SL-098-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.244 ng/Kg	0.244U ng/Kg
SL-098-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.258 ng/Kg	0.258U ng/Kg
SL-098-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.218 ng/Kg	0.218U ng/Kg
SL-098-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.168 ng/Kg	0.168U ng/Kg
SL-098-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.251 ng/Kg	0.251U ng/Kg
SL-098-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0432 ng/Kg	0.0432U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	1.60 ng/Kg	1.60U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.347 ng/Kg	0.347U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.145 ng/Kg	0.145U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-098-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.101 ng/Kg	0.101U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.158 ng/Kg	0.158U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.148 ng/Kg	0.148U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.153 ng/Kg	0.153U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8-PECDD	0.167 ng/Kg	0.167U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.188 ng/Kg	0.188U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.200 ng/Kg	0.200U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	2,3,7,8-TCDD	0.0819 ng/Kg	0.0819U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	2,3,7,8-TCDF	0.0491 ng/Kg	0.0491U ng/Kg
SL-098-SA5DN-SB-7.0-8.0(RES)	OCDF	0.785 ng/Kg	0.785U ng/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.552 ng/Kg	0.552U ng/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.178 ng/Kg	0.178U ng/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.157 ng/Kg	0.157U ng/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.222 ng/Kg	0.222U ng/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.233 ng/Kg	0.233U ng/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.202 ng/Kg	0.202U ng/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.208 ng/Kg	0.208U ng/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.214 ng/Kg	0.214U ng/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.273 ng/Kg	0.273U ng/Kg
SL-099-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0848 ng/Kg	0.0848U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.872 ng/Kg	0.872U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.220 ng/Kg	0.220U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0592 ng/Kg	0.0592U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0491 ng/Kg	0.0491U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0442 ng/Kg	0.0442U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0347 ng/Kg	0.0347U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0704 ng/Kg	0.0704U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0906 ng/Kg	0.0906U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0635 ng/Kg	0.0635U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0138 ng/Kg	0.0138U ng/Kg
SL-111-SA5DN-SB-4.0-5.0(RES)	OCDF	0.456 ng/Kg	0.456U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.755 ng/Kg	0.755U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.240 ng/Kg	0.240U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0564 ng/Kg	0.0564U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-112-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0167 ng/Kg	0.0167U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0575 ng/Kg	0.0575U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0630 ng/Kg	0.0630U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0492 ng/Kg	0.0492U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.111 ng/Kg	0.111U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0183 ng/Kg	0.0183U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0690 ng/Kg	0.0690U ng/Kg
SL-112-SA5DN-SB-4.0-5.0(RES)	OCDF	0.320 ng/Kg	0.320U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.885 ng/Kg	0.885U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.282 ng/Kg	0.282U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0943 ng/Kg	0.0943U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0489 ng/Kg	0.0489U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0631 ng/Kg	0.0631U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0849 ng/Kg	0.0849U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.109 ng/Kg	0.109U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.149 ng/Kg	0.149U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.156 ng/Kg	0.156U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0531 ng/Kg	0.0531U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0577 ng/Kg	0.0577U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	OCDD	3.60 ng/Kg	3.60U ng/Kg
SL-113-SA5DN-SB-4.0-5.0(RES)	OCDF	0.338 ng/Kg	0.338U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.675 ng/Kg	0.675U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.192 ng/Kg	0.192U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.143 ng/Kg	0.143U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0699 ng/Kg	0.0699U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0961 ng/Kg	0.0961U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.234 ng/Kg	0.234U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0576 ng/Kg	0.0576U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-114-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0185 ng/Kg	0.0185U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0379 ng/Kg	0.0379U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	OCDD	2.74 ng/Kg	2.74U ng/Kg
SL-114-SA5DN-SB-4.0-5.0(RES)	OCDF	0.476 ng/Kg	0.476U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.832 ng/Kg	0.832U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0449 ng/Kg	0.0449U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0172 ng/Kg	0.0172U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0507 ng/Kg	0.0507U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0388 ng/Kg	0.0388U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0823 ng/Kg	0.0823U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0164 ng/Kg	0.0164U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0290 ng/Kg	0.0290U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0658 ng/Kg	0.0658U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0668 ng/Kg	0.0668U ng/Kg
SL-118-SA5DN-SB-4.0-5.0(RES)	OCDF	0.275 ng/Kg	0.275U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	2.30 ng/Kg	2.30U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.307 ng/Kg	0.307U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0282 ng/Kg	0.0282U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0514 ng/Kg	0.0514U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0806 ng/Kg	0.0806U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0155 ng/Kg	0.0155U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0131 ng/Kg	0.0131U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0774 ng/Kg	0.0774U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0651 ng/Kg	0.0651U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0115 ng/Kg	0.0115U ng/Kg
SL-119-SA5DN-SB-4.0-5.0(RES)	OCDF	0.542 ng/Kg	0.542U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.73 ng/Kg	1.73U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.289 ng/Kg	0.289U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0660 ng/Kg	0.0660U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0599 ng/Kg	0.0599U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-120-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0816 ng/Kg	0.0816U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0328 ng/Kg	0.0328U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0933 ng/Kg	0.0933U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0392 ng/Kg	0.0392U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0556 ng/Kg	0.0556U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0864 ng/Kg	0.0864U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0226 ng/Kg	0.0226U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0254 ng/Kg	0.0254U ng/Kg
SL-120-SA5DN-SB-4.0-5.0(RES)	OCDF	0.589 ng/Kg	0.589U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.33 ng/Kg	1.33U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.259 ng/Kg	0.259U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0453 ng/Kg	0.0453U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0189 ng/Kg	0.0189U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0377 ng/Kg	0.0377U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.103 ng/Kg	0.103U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0337 ng/Kg	0.0337U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.140 ng/Kg	0.140U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0280 ng/Kg	0.0280U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0882 ng/Kg	0.0882U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0593 ng/Kg	0.0593U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0143 ng/Kg	0.0143U ng/Kg
SL-121-SA5DN-SB-4.0-5.0(RES)	OCDF	0.478 ng/Kg	0.478U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.384 ng/Kg	0.384U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0255 ng/Kg	0.0255U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.0570 ng/Kg	0.0570U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.0898 ng/Kg	0.0898U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.0685 ng/Kg	0.0685U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDD	0.0248 ng/Kg	0.0248U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.0468 ng/Kg	0.0468U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.0859 ng/Kg	0.0859U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.0826 ng/Kg	0.0826U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	2,3,7,8-TCDD	0.0211 ng/Kg	0.0211U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-121-SA5DN-SB-8.0-9.0(RES)	2,3,7,8-TCDF	0.0146 ng/Kg	0.0146U ng/Kg
SL-121-SA5DN-SB-8.0-9.0(RES)	OCDF	0.899 ng/Kg	0.899U ng/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.602 ng/Kg	0.602U ng/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0255 ng/Kg	0.0255U ng/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0783 ng/Kg	0.0783U ng/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0850 ng/Kg	0.0850U ng/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0490 ng/Kg	0.0490U ng/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0606 ng/Kg	0.0606U ng/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0149 ng/Kg	0.0149U ng/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-125-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0690 ng/Kg	0.0690U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.550 ng/Kg	0.550U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.245 ng/Kg	0.245U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0548 ng/Kg	0.0548U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.00861 ng/Kg	0.00861U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0288 ng/Kg	0.0288U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0429 ng/Kg	0.0429U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0350 ng/Kg	0.0350U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0186 ng/Kg	0.0186U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0179 ng/Kg	0.0179U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0977 ng/Kg	0.0977U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0158 ng/Kg	0.0158U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0111 ng/Kg	0.0111U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	OCDD	2.97 ng/Kg	2.97U ng/Kg
SL-125-SA5DN-SB-9.0-10.0(RES)	OCDF	0.264 ng/Kg	0.264U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
MOISTURE	14.5	12.800000000	12		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
1,2,3,4,6,7,8-HPCDD	0.755	1.090000000	36	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.240	0.168000000	35	50.00	
1,2,3,4,7,8,9-HPCDF	0.0564	0.064200000	13	50.00	
1,2,3,4,7,8-HXCDF	0.0575	0.042900000	29	50.00	
1,2,3,6,7,8-HXCDF	0.0492	0.052900000	7	50.00	
1,2,3,7,8,9-HXCDF	0.209	0.318000000	41	50.00	
2,3,4,6,7,8-HXCDF	0.108	0.082000000	27	50.00	
2,3,4,7,8-PECDF	0.0690	0.074400000	8	50.00	
OCDD	5.04	8.040000000	46	50.00	
OCDF	0.320	0.415000000	26	50.00	
1,2,3,4,7,8-HxCDD	0.0167	0.030700000	59	50.00	J(all detects)
1,2,3,6,7,8-HXCDD	0.0630	0.173000000	93	50.00	
1,2,3,7,8,9-HXCDD	0.111	0.281000000	87	50.00	
1,2,3,7,8-PECDD	0.0183	0.034600000	62	50.00	
1,2,3,7,8-PECDF	0.0408	0.073900000	58	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-094-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.724	5.79	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.234	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0657	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0530	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0918	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0613	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0736	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0786	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.117	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0717	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0941	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.120	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0999	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0324	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0173	1.16	PQL	ng/Kg	
	OCDD	JB	2.46	11.6	PQL	ng/Kg	
	OCDF	JB	0.275	11.6	PQL	ng/Kg	
SL-094-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.563	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.244	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0665	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0544	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.118	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0894	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0934	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0828	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.111	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.120	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.140	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.130	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.154	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0244	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0304	1.15	PQL	ng/Kg	
	OCDD	JB	2.05	11.5	PQL	ng/Kg	
	OCDF	JB	0.284	11.5	PQL	ng/Kg	
SL-095-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.38	5.58	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.356	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.144	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0475	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.108	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.168	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0850	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.227	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.363	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0708	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.140	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.124	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.138	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0405	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0344	1.12	PQL	ng/Kg	
	OCDF	JB	0.680	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-095-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.892	5.45	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.228	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0811	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0232	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0576	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0546	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0404	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0578	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0983	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0475	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0555	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0874	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0916	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0260	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0255	1.09	PQL	ng/Kg	
	OCDD	JB	7.45	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.411	10.9	PQL	ng/Kg	
SL-097-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.955	5.86	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.267	5.86	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0549	5.86	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0163	5.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0592	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0570	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0526	5.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0602	5.86	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.0635	5.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0171	5.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0231	5.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0799	5.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0812	5.86	PQL	ng/Kg	
	OCDD	JB	9.03	11.7	PQL	ng/Kg	
	OCDF	JB	0.330	11.7	PQL	ng/Kg	
SL-097-SA5DN-SB-8.5-9.5	1,2,3,4,6,7,8-HPCDD	JB	0.452	5.61	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.135	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0397	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0151	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0326	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0310	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0182	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0327	5.61	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JBQ	0.0552	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0465	5.61	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0139	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0107	1.12	PQL	ng/Kg	
	OCDD	JB	1.20	11.2	PQL	ng/Kg	
	OCDF	JB	0.174	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	3.13	5.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.244	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.258	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.574	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.921	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.218	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.680	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.283	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.168	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.374	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.251	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.628	5.84	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0432	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.303	1.17	PQL	ng/Kg	
	OCDF	JB	11.1	11.7	PQL	ng/Kg	
SL-098-SA5DN-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	1.60	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.347	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.145	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.101	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.158	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.148	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.136	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.153	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.189	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.167	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.188	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.168	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.200	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0819	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0491	1.14	PQL	ng/Kg	
	OCDF	JB	0.785	11.4	PQL	ng/Kg	
SL-099-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.32	5.61	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.552	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.178	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.157	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.222	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.233	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.202	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.208	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.250	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.253	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.266	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.214	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.273	5.61	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0848	1.12	PQL	ng/Kg	
	OCDF	JB	1.42	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-111-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.872	5.68	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.220	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0592	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0491	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0442	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0347	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0704	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.105	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0301	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0906	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0635	5.68	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0138	1.14	PQL	ng/Kg	
	OCDD	JB	8.66	11.4	PQL	ng/Kg	
	OCDF	JB	0.456	11.4	PQL	ng/Kg	
SL-112-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.755	5.80	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.240	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0564	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0167	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0575	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0630	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0492	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.111	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.209	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0183	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0408	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.108	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0690	5.80	PQL	ng/Kg	
	OCDD	JB	5.04	11.6	PQL	ng/Kg	
	OCDF	JB	0.320	11.6	PQL	ng/Kg	
SL-113-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.885	5.88	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.282	5.88	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0943	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0489	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.108	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0631	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.102	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0849	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.122	5.88	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.109	5.88	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.149	5.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.150	5.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.156	5.88	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0531	1.18	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0577	1.18	PQL	ng/Kg	
	OCDD	JB	3.60	11.8	PQL	ng/Kg	
	OCDF	JBQ	0.338	11.8	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.675	5.43	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.192	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.143	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0699	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.112	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.128	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0961	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.234	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.420	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0576	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.133	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.144	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.124	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0185	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0379	1.09	PQL	ng/Kg	
	OCDD	JB	2.74	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.476	10.9	PQL	ng/Kg	
SL-118-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.832	5.49	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.185	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0449	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0172	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0507	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0388	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0415	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0823	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0560	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0164	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0290	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0658	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0668	5.49	PQL	ng/Kg	
	OCDD	JB	5.11	11.0	PQL	ng/Kg	
	OCDF	JB	0.275	11.0	PQL	ng/Kg	
SL-119-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.30	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.307	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0594	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0282	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0514	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0806	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0485	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.102	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0745	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0155	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0131	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0774	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0651	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0115	1.14	PQL	ng/Kg	
	OCDF	JB	0.542	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-120-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.73	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.289	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0660	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0244	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0599	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0816	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0328	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0933	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.0940	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0392	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0556	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0864	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.103	5.62	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0226	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0254	1.12	PQL	ng/Kg	
	OCDF	JB	0.589	11.2	PQL	ng/Kg	
SL-121-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.33	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.259	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0453	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0189	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0377	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.103	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0337	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.140	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.184	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0280	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0533	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0882	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0593	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0244	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0143	1.11	PQL	ng/Kg	
	OCDF	JB	0.478	11.1	PQL	ng/Kg	
SL-121-SA5DN-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	2.49	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.384	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0713	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0255	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0570	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0898	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0386	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0685	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.0493	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0248	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0468	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0859	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0826	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0211	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0146	1.05	PQL	ng/Kg	
	OCDF	JB	0.899	10.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX104 **Laboratory: LL**

EDD Filename: DX104_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-125-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.49	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.602	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0811	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0255	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0783	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0850	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0490	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0606	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0720	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0149	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.135	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0690	5.48	PQL	ng/Kg	
	OCDF	JB	1.86	11.0	PQL	ng/Kg	
SL-125-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.550	5.19	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.245	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0548	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.00861	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0485	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0288	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0429	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0350	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0511	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0186	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0179	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0977	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0682	5.19	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0158	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0111	1.04	PQL	ng/Kg	
	OCDD	JB	2.97	10.4	PQL	ng/Kg	
	OCDF	JB	0.264	10.4	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX105

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-June-2011	DUP16-SA5DN-QC-062211	6325719	FD	METHOD	1613B	III
22-June-2011	EB19-SA5DN-SB-062211	6325720	EB	METHOD	1613B	III
22-June-2011	SL-115-SA5DN-SB-4.0-5.0	6325718	N	METHOD	1613B	III
23-June-2011	SL-109-SA5DN-SB-3.5-4.5	6327429	N	METHOD	1613B	III
23-June-2011	SL-100-SA5DN-SB-3.0-4.0	6327421	N	METHOD	1613B	III
23-June-2011	SL-101-SA5DN-SB-2.5-3.5	6327422	N	METHOD	1613B	III
23-June-2011	SL-102-SA5DN-SB-4.0-5.0	6327423	N	METHOD	1613B	III
23-June-2011	SL-104-SA5DN-SB-4.0-5.0	6327424	N	METHOD	1613B	III
23-June-2011	SL-105-SA5DN-SB-4.0-5.0	6327425	N	METHOD	1613B	III
23-June-2011	SL-106-SA5DN-SB-4.0-5.0	6327426	N	METHOD	1613B	III
23-June-2011	SL-107-SA5DN-SB-3.5-4.5	6327428	N	METHOD	1613B	III
23-June-2011	SL-110-SA5DN-SB-4.0-5.0	6327430	N	METHOD	1613B	III
23-June-2011	SL-106-SA5DN-SB-9.0-10.0	6327427	N	METHOD	1613B	III
24-June-2011	DUP17-SA5DN-QC-062411	6328487	FD	METHOD	1613B	III
24-June-2011	SL-091-SA5DN-SB-4.0-5.0	6328479	N	METHOD	1613B	III
24-June-2011	SL-092-SA5DN-SB-4.0-5.0	6328480	N	METHOD	1613B	III
24-June-2011	SL-092-SA5DN-SB-4.0-5.0MS	6328481	MS	METHOD	1613B	III
24-June-2011	SL-092-SA5DN-SB-4.0-5.0MSD	6328482	MSD	METHOD	1613B	III
24-June-2011	SL-092-SA5DN-SB-7.0-8.0	6328483	N	METHOD	1613B	III
24-June-2011	SL-122-SA5DN-SB-4.0-5.0	6328484	N	METHOD	1613B	III
24-June-2011	SL-103-SA5DN-SB-4.0-5.0	6328485	N	METHOD	1613B	III
24-June-2011	SL-103-SA5DN-SB-7.0-8.0	6328486	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB19-SA5DN-SB-062211 *Collected:* 6/22/2011 1:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	6.72	JB	0.331	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	11.3	B	0.201	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	1.03	JB	0.232	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.337	JB	0.162	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	1.72	JB	0.244	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.474	JB	0.164	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	1.47	JB	0.238	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.585	JB	0.157	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.652	JBQ	0.271	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.301	JB	0.103	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	3.02	JB	0.230	MDL	10.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	1.29	JBQ	0.0964	MDL	10.2	PQL	pg/L	U	B
OCDD	11.5	JB	0.355	MDL	20.4	PQL	pg/L	U	B
OCDF	5.99	JB	0.392	MDL	20.4	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.09	JB	0.0326	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.168	JB	0.00780	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0642	JB	0.0175	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0307	JBQ	0.0219	MDL	5.70	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0429	JBQ	0.0150	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.173	JB	0.0218	MDL	5.70	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0529	JB	0.0122	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.281	JBQ	0.0216	MDL	5.70	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.318	JB	0.0203	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0346	JBQ	0.0269	MDL	5.70	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0739	JB	0.0130	MDL	5.70	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0820	JBQ	0.0143	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0744	JBQ	0.0138	MDL	5.70	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory:** LL

EDD Filename: DX105_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP16-SA5DN-QC-062211 *Collected:* 6/22/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	8.04	JB	0.0194	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.415	JBQ	0.0392	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: DUP17-SA5DN-QC-062411 *Collected:* 6/24/2011 10:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.06	JB	0.0303	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JB	0.00836	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0570	JBQ	0.0184	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0376	JBQ	0.0193	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0362	JBQ	0.0146	MDL	5.81	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.109	JBQ	0.0196	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0405	JBQ	0.0125	MDL	5.81	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.145	JBQ	0.0201	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.186	JB	0.0173	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0379	JBQ	0.0197	MDL	5.81	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0422	JB	0.0110	MDL	5.81	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0529	JBQ	0.0143	MDL	5.81	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0694	JBQ	0.0115	MDL	5.81	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0269	JQ	0.0239	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	13.6	B	0.0314	MDL	11.6	PQL	ng/Kg	J	FD
OCDF	0.364	JB	0.0366	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-091-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 12:35:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.587	JC	0.147	MDL	1.19	PQL	ng/Kg	J	Z

Sample ID: SL-091-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.21	JB	0.0219	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	3.05	JB	0.0451	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.133	JB	0.0529	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.583	JB	0.0544	MDL	5.95	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory:** LL

EDD Filename: DX105_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-091-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.410	JBQ	0.0535	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	4.51	JB	0.127	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.487	JBQ	0.125	MDL	5.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.75	JB	0.104	MDL	5.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0937	JQ	0.0623	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	4.90	JB	0.0411	MDL	11.9	PQL	ng/Kg	J	Z

Sample ID: SL-092-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 10:18:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.836	JB	0.0262	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.235	JBQ	0.00908	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0884	JBQ	0.0264	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0539	JBQ	0.0198	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0955	JB	0.0189	MDL	5.54	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.108	JB	0.0195	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0757	JB	0.0134	MDL	5.54	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.147	JBQ	0.0202	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.178	JB	0.0253	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0984	JBQ	0.0233	MDL	5.54	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.114	JBQ	0.0144	MDL	5.54	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0924	JB	0.0170	MDL	5.54	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.123	JBQ	0.0160	MDL	5.54	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0268	JQ	0.0253	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	4.99	JB	0.0217	MDL	11.1	PQL	ng/Kg	UJ	B, FD
OCDF	0.583	JB	0.0530	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-092-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.78	JB	0.0284	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.434	JB	0.00964	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.285	JB	0.0223	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.203	JB	0.0259	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.260	JBQ	0.0204	MDL	5.81	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 Laboratory: LL

EDD Filename: DX105_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-092-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.321	JB	0.0259	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.202	JB	0.0166	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.346	JBQ	0.0260	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.296	JBQ	0.0283	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.257	JBQ	0.0280	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.217	JB	0.0137	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.293	JB	0.0196	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.288	JB	0.0146	MDL	5.81	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0734	JQ	0.0275	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0373	JQ	0.0264	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	1.01	JB	0.0405	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-100-SA5DN-SB-3.0-4.0 *Collected:* 6/23/2011 8:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.87	JB	0.0361	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.552	JB	0.0112	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0984	JBQ	0.0231	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0483	JBQ	0.0272	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0688	JB	0.0190	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.201	JBQ	0.0265	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0628	JB	0.0156	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.177	JB	0.0270	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.121	JB	0.0200	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0342	JBQ	0.0245	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0470	JB	0.0138	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.102	JBQ	0.0164	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.105	JBQ	0.0147	MDL	5.63	PQL	ng/Kg	U	B
OCDF	1.54	JB	0.0416	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-101-SA5DN-SB-2.5-3.5 *Collected:* 6/23/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.594	JBQ	0.0292	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.100	JB	0.00866	MDL	5.18	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory:** LL

EDD Filename: DX105_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-101-SA5DN-SB-2.5-3.5 *Collected:* 6/23/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0467	JBQ	0.0157	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0367	JBQ	0.0169	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0604	JBQ	0.0185	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0238	JB	0.0133	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0572	JBQ	0.0178	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0914	JBQ	0.0160	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0164	JBQ	0.0111	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0620	JB	0.0117	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0544	JBQ	0.0118	MDL	5.18	PQL	ng/Kg	U	B
OCDD	4.06	JB	0.0183	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.265	JBQ	0.0359	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-102-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.70	JB	0.0155	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.107	JB	0.0278	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0884	JB	0.0284	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.110	JBQ	0.0281	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.446	JB	0.0292	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0852	JB	0.0210	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.237	JB	0.0279	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.138	JB	0.0219	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0449	JBQ	0.0240	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0285	JBQ	0.0123	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.101	JB	0.0160	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0685	JB	0.0139	MDL	5.23	PQL	ng/Kg	U	B
OCDF	5.67	JB	0.0428	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.412	JB	0.0520	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.386	JB	0.0450	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.456	JBQ	0.0270	MDL	5.32	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory:** LL

EDD Filename: DX105_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-103-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	2.00	JB	0.0453	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.272	JB	0.0215	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.04	JB	0.0433	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.282	JBQ	0.0340	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.222	JBQ	0.0357	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.426	JB	0.0201	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.360	JB	0.0257	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.254	JB	0.0227	MDL	5.32	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0481	JQ	0.0291	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.111	J	0.0411	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-103-SA5DN-SB-7.0-8.0 *Collected:* 6/24/2011 9:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.692	JB	0.0646	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.314	JBQ	0.0350	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.865	JBQ	0.0330	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.24	JB	0.0368	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.441	JB	0.0234	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.36	JB	0.0378	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.315	JBQ	0.0523	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.121	JBQ	0.0286	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.103	JB	0.0134	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.962	JB	0.0297	MDL	5.78	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.204	JB	0.0159	MDL	5.78	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0486	JQ	0.0291	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0369	J	0.0301	MDL	1.16	PQL	ng/Kg	J	Z

Sample ID: SL-104-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.537	JB	0.0275	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.139	JBQ	0.00786	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0654	JB	0.0145	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.137	JB	0.0205	MDL	5.49	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-104-SA5DN-SB-4.0-5.0** ***Collected:*** **6/23/2011 2:25:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.150	JBQ	0.0157	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.128	JBQ	0.0204	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.151	JBQ	0.0135	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.130	JBQ	0.0212	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.141	JBQ	0.0172	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.200	JB	0.0237	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.259	JBQ	0.0126	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.115	JB	0.0139	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.248	JBQ	0.0121	MDL	5.49	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0663	JQ	0.0255	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0572	JQ	0.0232	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	3.86	JB	0.0209	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.201	JBQ	0.0308	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: **SL-105-SA5DN-SB-4.0-5.0** ***Collected:*** **6/23/2011 3:30:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.414	JB	0.0433	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.567	JB	0.0515	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.664	JB	0.0330	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.71	JB	0.0520	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.461	JB	0.0290	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.60	JB	0.0484	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.862	JB	0.0300	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.551	JB	0.0423	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.560	JB	0.0236	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.413	JB	0.0252	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.551	JBQ	0.0239	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.112	J	0.0302	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.254	J	0.0456	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: **SL-106-SA5DN-SB-4.0-5.0** ***Collected:*** **6/23/2011 11:50:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.21	JB	0.0247	MDL	5.53	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory:** LL

EDD Filename: DX105_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-106-SA5DN-SB-4.0-5.0 *Collected:* 6/23/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.630	JB	0.00999	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0673	JB	0.0177	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0437	JBQ	0.0210	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0878	JB	0.0162	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.435	JB	0.0222	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0950	JB	0.0144	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.624	JB	0.0218	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.676	JB	0.0191	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.165	JB	0.0295	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.248	JB	0.0121	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.110	JB	0.0154	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.163	JB	0.0130	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0517	JQ	0.0235	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0466	J	0.0231	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.54	JB	0.0287	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-106-SA5DN-SB-9.0-10.0 *Collected:* 6/23/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.548	JB	0.0258	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.119	JB	0.00805	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.140	JB	0.0205	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0470	JBQ	0.0189	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0324	JBQ	0.0154	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0543	JBQ	0.0191	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0610	JBQ	0.0112	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0713	JB	0.0191	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.126	JBQ	0.0178	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0503	JBQ	0.0240	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0692	JBQ	0.0104	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0856	JBQ	0.0135	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.111	JBQ	0.0119	MDL	5.49	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0339	JQ	0.0248	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0438	JQ	0.0235	MDL	1.10	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory:** LL

EDD Filename: DX105_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-106-SA5DN-SB-9.0-10.0 *Collected:* 6/23/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	2.78	JB	0.0223	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.405	JB	0.0478	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-107-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.773	JB	0.0232	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.204	JB	0.00669	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.180	JBQ	0.0183	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0547	JBQ	0.0181	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0876	JB	0.0137	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0853	JBQ	0.0181	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0667	JBQ	0.0101	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.108	JB	0.0173	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.190	JB	0.0178	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0632	JBQ	0.0169	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0775	JBQ	0.00976	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.109	JBQ	0.0116	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0976	JBQ	0.0109	MDL	5.43	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0461	JQ	0.0225	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	5.43	JB	0.0185	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.649	JBQ	0.0420	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-109-SA5DN-SB-3.5-4.5 *Collected:* 6/23/2011 10:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.756	JB	0.0243	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.134	JB	0.00578	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0490	JBQ	0.0176	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0229	JB	0.0183	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0358	JB	0.0128	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0440	JBQ	0.0187	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0197	JBQ	0.00945	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0495	JBQ	0.0185	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0541	JB	0.0182	MDL	5.10	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-109-SA5DN-SB-3.5-4.5** ***Collected:*** **6/23/2011 10:10:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,7,8-PECDF	0.0277	JBQ	0.0103	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0699	JB	0.0117	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0526	JBQ	0.0111	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0332	JQ	0.0230	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	6.83	JB	0.0197	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.351	JB	0.0407	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: **SL-110-SA5DN-SB-4.0-5.0** ***Collected:*** **6/23/2011 9:40:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,4,6,7,8-HPCDD	3.41	JB	0.0322	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.434	JB	0.00896	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0908	JB	0.0260	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0274	JBQ	0.0209	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0707	JBQ	0.0154	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.161	JB	0.0216	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0488	JB	0.0113	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.120	JBQ	0.0209	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0529	JB	0.0227	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0457	JBQ	0.0210	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0436	JBQ	0.0104	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0970	JBQ	0.0140	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0858	JBQ	0.0118	MDL	5.42	PQL	ng/Kg	U	B
OCDF	1.23	JB	0.0450	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: **SL-115-SA5DN-SB-4.0-5.0** ***Collected:*** **6/22/2011 10:55:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,4,6,7,8-HPCDD	0.763	JB	0.0314	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.151	JB	0.00905	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0702	JBQ	0.0172	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0414	JBQ	0.0225	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0468	JB	0.0166	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0789	JB	0.0222	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0575	JBQ	0.0139	MDL	5.62	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 Laboratory: LL

EDD Filename: DX105_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-115-SA5DN-SB-4.0-5.0 *Collected:* 6/22/2011 10:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.144	JBQ	0.0220	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.194	JBQ	0.0215	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0574	JBQ	0.0293	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0752	JB	0.0145	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0830	JBQ	0.0162	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0652	JB	0.0142	MDL	5.62	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0520	JQ	0.0354	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	2.18	JB	0.0220	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.229	JB	0.0388	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-122-SA5DN-SB-4.0-5.0 *Collected:* 6/24/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.575	JBQ	0.0269	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.149	JBQ	0.00722	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0582	JBQ	0.0215	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0562	JBQ	0.0219	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.110	JB	0.0148	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0980	JB	0.0223	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0641	JB	0.0108	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.184	JBQ	0.0221	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.221	JB	0.0218	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0703	JB	0.0211	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.116	JBQ	0.0113	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.130	JB	0.0139	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.124	JB	0.0127	MDL	5.61	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0484	J	0.0276	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	2.46	JB	0.0220	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.406	JBQ	0.0445	MDL	11.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX105

Method Blank Outlier Report

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1790B371907	6/30/2011 7:07:00 PM	1,2,3,4,6,7,8-HPCDD	7.89 pg/L	EB19-SA5DN-SB-062211
		1,2,3,4,6,7,8-HPCDF	12.2 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.72 pg/L	
		1,2,3,4,7,8-HxCDD	0.478 pg/L	
		1,2,3,4,7,8-HXCDF	1.69 pg/L	
		1,2,3,6,7,8-HXCDD	0.892 pg/L	
		1,2,3,6,7,8-HXCDF	1.55 pg/L	
		1,2,3,7,8,9-HXCDD	1.22 pg/L	
		1,2,3,7,8,9-HXCDF	1.02 pg/L	
		1,2,3,7,8-PECDD	0.462 pg/L	
		1,2,3,7,8-PECDF	0.412 pg/L	
		2,3,4,6,7,8-HXCDF	2.76 pg/L	
		2,3,4,7,8-PECDF	1.37 pg/L	
		2,3,7,8-TCDD	0.204 pg/L	
		OCDD	15.9 pg/L	
		OCDF	6.55 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB19-SA5DN-SB-062211(RES)	1,2,3,4,6,7,8-HPCDD	6.72 pg/L	6.72U pg/L
EB19-SA5DN-SB-062211(RES)	1,2,3,4,6,7,8-HPCDF	11.3 pg/L	11.3U pg/L
EB19-SA5DN-SB-062211(RES)	1,2,3,4,7,8,9-HPCDF	1.03 pg/L	1.03U pg/L
EB19-SA5DN-SB-062211(RES)	1,2,3,4,7,8-HxCDD	0.337 pg/L	0.337U pg/L
EB19-SA5DN-SB-062211(RES)	1,2,3,4,7,8-HXCDF	1.72 pg/L	1.72U pg/L
EB19-SA5DN-SB-062211(RES)	1,2,3,6,7,8-HXCDD	0.474 pg/L	0.474U pg/L
EB19-SA5DN-SB-062211(RES)	1,2,3,6,7,8-HXCDF	1.47 pg/L	1.47U pg/L
EB19-SA5DN-SB-062211(RES)	1,2,3,7,8,9-HXCDD	0.585 pg/L	0.585U pg/L
EB19-SA5DN-SB-062211(RES)	1,2,3,7,8,9-HXCDF	0.652 pg/L	0.652U pg/L
EB19-SA5DN-SB-062211(RES)	1,2,3,7,8-PECDF	0.301 pg/L	0.301U pg/L
EB19-SA5DN-SB-062211(RES)	2,3,4,6,7,8-HXCDF	3.02 pg/L	3.02U pg/L
EB19-SA5DN-SB-062211(RES)	2,3,4,7,8-PECDF	1.29 pg/L	1.29U pg/L
EB19-SA5DN-SB-062211(RES)	OCDD	11.5 pg/L	11.5U pg/L
EB19-SA5DN-SB-062211(RES)	OCDF	5.99 pg/L	5.99U pg/L

Field Duplicate RPD Report

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
MOISTURE	14.500000000	12.8	12		No Qualifiers Applied

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
MOISTURE	13.0	15.1	15		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-112-SA5DN-SB-4.0-5.0	DUP16-SA5DN-QC-062211			
1,2,3,4,6,7,8-HPCDD	0.755000000	1.09	36	50.00	
1,2,3,4,6,7,8-HPCDF	0.240000000	0.168	35	50.00	
1,2,3,4,7,8,9-HPCDF	0.056400000	0.0642	13	50.00	
1,2,3,4,7,8-HxCDD	0.016700000	0.0307	59	50.00	
1,2,3,4,7,8-HXCDF	0.057500000	0.0429	29	50.00	
1,2,3,6,7,8-HXCDD	0.063000000	0.173	93	50.00	
1,2,3,6,7,8-HXCDF	0.049200000	0.0529	7	50.00	
1,2,3,7,8,9-HXCDD	0.111000000	0.281	87	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.209000000	0.318	41	50.00	Except
1,2,3,7,8-PECDD	0.018300000	0.0346	62	50.00	1,2,3,4,7,8-HxCDD,
1,2,3,7,8-PECDF	0.040800000	0.0739	58	50.00	1,2,3,6,7,8-HXCDD,
2,3,4,6,7,8-HXCDF	0.108000000	0.0820	27	50.00	1,2,3,7,8,9-HXCDD,
2,3,4,7,8-PECDF	0.069000000	0.0744	8	50.00	1,2,3,7,8-PECDD,
OCDD	5.040000000	8.04	46	50.00	1,2,3,7,8-PECDF
OCDF	0.320000000	0.415	26	50.00	J(all detects)

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-092-SA5DN-SB-4.0-5.0	DUP17-SA5DN-QC-062411			
1,2,3,4,6,7,8-HPCDD	0.836	1.06	24	50.00	
1,2,3,4,6,7,8-HPCDF	0.235	0.166	34	50.00	
1,2,3,4,7,8,9-HPCDF	0.0884	0.0570	43	50.00	
1,2,3,4,7,8-HxCDD	0.0539	0.0376	36	50.00	
1,2,3,6,7,8-HXCDD	0.108	0.109	1	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDD	0.147	0.145	1	50.00	
1,2,3,7,8,9-HXCDF	0.178	0.186	4	50.00	
2,3,7,8-TCDD	0.0268	0.0269	0	50.00	
OCDF	0.583	0.364	46	50.00	
1,2,3,4,7,8-HXCDF	0.0955	0.0362	90	50.00	
1,2,3,6,7,8-HXCDF	0.0757	0.0405	61	50.00	
1,2,3,7,8-PECDD	0.0984	0.0379	89	50.00	J(all detects)
1,2,3,7,8-PECDF	0.114	0.0422	92	50.00	
2,3,4,6,7,8-HXCDF	0.0924	0.0529	54	50.00	
2,3,4,7,8-PECDF	0.123	0.0694	56	50.00	
OCDD	4.99	13.6	93	50.00	

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1880B371851	7/8/2011 6:51:00 PM	1,2,3,4,6,7,8-HPCDD	0.482 ng/Kg	DUP16-SA5DN-QC-062211
		1,2,3,4,6,7,8-HPCDF	0.183 ng/Kg	DUP17-SA5DN-QC-062411
		1,2,3,4,7,8,9-HPCDF	0.122 ng/Kg	SL-091-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0727 ng/Kg	SL-092-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0817 ng/Kg	SL-092-SA5DN-SB-7.0-8.0
		1,2,3,6,7,8-HXCDD	0.0718 ng/Kg	SL-100-SA5DN-SB-3.0-4.0
		1,2,3,6,7,8-HXCDF	0.0708 ng/Kg	SL-101-SA5DN-SB-2.5-3.5
		1,2,3,7,8,9-HXCDD	0.0839 ng/Kg	SL-102-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.117 ng/Kg	SL-103-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0255 ng/Kg	SL-103-SA5DN-SB-7.0-8.0
		1,2,3,7,8-PECDF	0.0513 ng/Kg	SL-104-SA5DN-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0951 ng/Kg	SL-105-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.113 ng/Kg	SL-106-SA5DN-SB-4.0-5.0
		OCDD	1.03 ng/Kg	SL-106-SA5DN-SB-9.0-10.0
		OCDF	0.387 ng/Kg	SL-107-SA5DN-SB-3.5-4.5
				SL-109-SA5DN-SB-3.5-4.5
				SL-110-SA5DN-SB-4.0-5.0
				SL-115-SA5DN-SB-4.0-5.0
				SL-122-SA5DN-SB-4.0-5.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP16-SA5DN-QC-062211(RES)	1,2,3,4,6,7,8-HPCDD	1.09 ng/Kg	1.09U ng/Kg
DUP16-SA5DN-QC-062211(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
DUP16-SA5DN-QC-062211(RES)	1,2,3,4,7,8,9-HPCDF	0.0642 ng/Kg	0.0642U ng/Kg
DUP16-SA5DN-QC-062211(RES)	1,2,3,4,7,8-HxCDD	0.0307 ng/Kg	0.0307U ng/Kg
DUP16-SA5DN-QC-062211(RES)	1,2,3,4,7,8-HXCDF	0.0429 ng/Kg	0.0429U ng/Kg
DUP16-SA5DN-QC-062211(RES)	1,2,3,6,7,8-HXCDD	0.173 ng/Kg	0.173U ng/Kg
DUP16-SA5DN-QC-062211(RES)	1,2,3,6,7,8-HXCDF	0.0529 ng/Kg	0.0529U ng/Kg
DUP16-SA5DN-QC-062211(RES)	1,2,3,7,8,9-HXCDD	0.281 ng/Kg	0.281U ng/Kg
DUP16-SA5DN-QC-062211(RES)	1,2,3,7,8,9-HXCDF	0.318 ng/Kg	0.318U ng/Kg
DUP16-SA5DN-QC-062211(RES)	1,2,3,7,8-PECDD	0.0346 ng/Kg	0.0346U ng/Kg
DUP16-SA5DN-QC-062211(RES)	1,2,3,7,8-PECDF	0.0739 ng/Kg	0.0739U ng/Kg
DUP16-SA5DN-QC-062211(RES)	2,3,4,6,7,8-HXCDF	0.0820 ng/Kg	0.0820U ng/Kg
DUP16-SA5DN-QC-062211(RES)	2,3,4,7,8-PECDF	0.0744 ng/Kg	0.0744U ng/Kg
DUP16-SA5DN-QC-062211(RES)	OCDF	0.415 ng/Kg	0.415U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,4,6,7,8-HPCDD	1.06 ng/Kg	1.06U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,4,7,8,9-HPCDF	0.0570 ng/Kg	0.0570U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,4,7,8-HxCDD	0.0376 ng/Kg	0.0376U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,4,7,8-HXCDF	0.0362 ng/Kg	0.0362U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,6,7,8-HXCDD	0.109 ng/Kg	0.109U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,6,7,8-HXCDF	0.0405 ng/Kg	0.0405U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,7,8,9-HXCDD	0.145 ng/Kg	0.145U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,7,8,9-HXCDF	0.186 ng/Kg	0.186U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,7,8-PECDD	0.0379 ng/Kg	0.0379U ng/Kg
DUP17-SA5DN-QC-062411(RES)	1,2,3,7,8-PECDF	0.0422 ng/Kg	0.0422U ng/Kg
DUP17-SA5DN-QC-062411(RES)	2,3,4,6,7,8-HXCDF	0.0529 ng/Kg	0.0529U ng/Kg
DUP17-SA5DN-QC-062411(RES)	2,3,4,7,8-PECDF	0.0694 ng/Kg	0.0694U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP17-SA5DN-QC-062411(RES)	OCDF	0.364 ng/Kg	0.364U ng/Kg
SL-091-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.133 ng/Kg	0.133U ng/Kg
SL-091-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.410 ng/Kg	0.410U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.836 ng/Kg	0.836U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.235 ng/Kg	0.235U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0884 ng/Kg	0.0884U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0539 ng/Kg	0.0539U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0955 ng/Kg	0.0955U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0757 ng/Kg	0.0757U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.147 ng/Kg	0.147U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0984 ng/Kg	0.0984U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.114 ng/Kg	0.114U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.123 ng/Kg	0.123U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	OCDD	4.99 ng/Kg	4.99U ng/Kg
SL-092-SA5DN-SB-4.0-5.0(RES)	OCDF	0.583 ng/Kg	0.583U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	1.78 ng/Kg	1.78U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.434 ng/Kg	0.434U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.285 ng/Kg	0.285U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.203 ng/Kg	0.203U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.260 ng/Kg	0.260U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.321 ng/Kg	0.321U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.202 ng/Kg	0.202U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.346 ng/Kg	0.346U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.296 ng/Kg	0.296U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.217 ng/Kg	0.217U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	2,3,4,6,7,8-HXCDF	0.293 ng/Kg	0.293U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.288 ng/Kg	0.288U ng/Kg
SL-092-SA5DN-SB-7.0-8.0(RES)	OCDF	1.01 ng/Kg	1.01U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.552 ng/Kg	0.552U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0984 ng/Kg	0.0984U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.0483 ng/Kg	0.0483U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0688 ng/Kg	0.0688U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.201 ng/Kg	0.201U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0628 ng/Kg	0.0628U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.177 ng/Kg	0.177U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0342 ng/Kg	0.0342U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-100-SA5DN-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.105 ng/Kg	0.105U ng/Kg
SL-100-SA5DN-SB-3.0-4.0(RES)	OCDF	1.54 ng/Kg	1.54U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.594 ng/Kg	0.594U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.100 ng/Kg	0.100U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0467 ng/Kg	0.0467U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0367 ng/Kg	0.0367U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0604 ng/Kg	0.0604U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0238 ng/Kg	0.0238U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0572 ng/Kg	0.0572U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0914 ng/Kg	0.0914U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0164 ng/Kg	0.0164U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0620 ng/Kg	0.0620U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0544 ng/Kg	0.0544U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	OCDD	4.06 ng/Kg	4.06U ng/Kg
SL-101-SA5DN-SB-2.5-3.5(RES)	OCDF	0.265 ng/Kg	0.265U ng/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.107 ng/Kg	0.107U ng/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0884 ng/Kg	0.0884U ng/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0852 ng/Kg	0.0852U ng/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.237 ng/Kg	0.237U ng/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0449 ng/Kg	0.0449U ng/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0285 ng/Kg	0.0285U ng/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-102-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0685 ng/Kg	0.0685U ng/Kg
SL-103-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.412 ng/Kg	0.412U ng/Kg
SL-103-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.272 ng/Kg	0.272U ng/Kg
SL-103-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.282 ng/Kg	0.282U ng/Kg
SL-103-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.360 ng/Kg	0.360U ng/Kg
SL-103-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.254 ng/Kg	0.254U ng/Kg
SL-103-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.314 ng/Kg	0.314U ng/Kg
SL-103-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.315 ng/Kg	0.315U ng/Kg
SL-103-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8-PECDD	0.121 ng/Kg	0.121U ng/Kg
SL-103-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-103-SA5DN-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.204 ng/Kg	0.204U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.537 ng/Kg	0.537U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.139 ng/Kg	0.139U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0654 ng/Kg	0.0654U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-104-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.137 ng/Kg	0.137U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.130 ng/Kg	0.130U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.141 ng/Kg	0.141U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.248 ng/Kg	0.248U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	OCDD	3.86 ng/Kg	3.86U ng/Kg
SL-104-SA5DN-SB-4.0-5.0(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-105-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.414 ng/Kg	0.414U ng/Kg
SL-105-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.413 ng/Kg	0.413U ng/Kg
SL-105-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.551 ng/Kg	0.551U ng/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	2.21 ng/Kg	2.21U ng/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.630 ng/Kg	0.630U ng/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0437 ng/Kg	0.0437U ng/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0878 ng/Kg	0.0878U ng/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0950 ng/Kg	0.0950U ng/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.248 ng/Kg	0.248U ng/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-106-SA5DN-SB-4.0-5.0(RES)	OCDF	1.54 ng/Kg	1.54U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.548 ng/Kg	0.548U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.119 ng/Kg	0.119U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.140 ng/Kg	0.140U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0470 ng/Kg	0.0470U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0324 ng/Kg	0.0324U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0543 ng/Kg	0.0543U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0713 ng/Kg	0.0713U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0503 ng/Kg	0.0503U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0692 ng/Kg	0.0692U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0856 ng/Kg	0.0856U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	OCDD	2.78 ng/Kg	2.78U ng/Kg
SL-106-SA5DN-SB-9.0-10.0(RES)	OCDF	0.405 ng/Kg	0.405U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.773 ng/Kg	0.773U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.204 ng/Kg	0.204U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.180 ng/Kg	0.180U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0547 ng/Kg	0.0547U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0876 ng/Kg	0.0876U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0853 ng/Kg	0.0853U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0632 ng/Kg	0.0632U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0775 ng/Kg	0.0775U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0976 ng/Kg	0.0976U ng/Kg
SL-107-SA5DN-SB-3.5-4.5(RES)	OCDF	0.649 ng/Kg	0.649U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.756 ng/Kg	0.756U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0490 ng/Kg	0.0490U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0229 ng/Kg	0.0229U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0358 ng/Kg	0.0358U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0440 ng/Kg	0.0440U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0197 ng/Kg	0.0197U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0495 ng/Kg	0.0495U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0699 ng/Kg	0.0699U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-109-SA5DN-SB-3.5-4.5(RES)	OCDF	0.351 ng/Kg	0.351U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.434 ng/Kg	0.434U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0908 ng/Kg	0.0908U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0274 ng/Kg	0.0274U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0707 ng/Kg	0.0707U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.161 ng/Kg	0.161U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0488 ng/Kg	0.0488U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.120 ng/Kg	0.120U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0457 ng/Kg	0.0457U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0436 ng/Kg	0.0436U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0970 ng/Kg	0.0970U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0858 ng/Kg	0.0858U ng/Kg
SL-110-SA5DN-SB-4.0-5.0(RES)	OCDF	1.23 ng/Kg	1.23U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.763 ng/Kg	0.763U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.151 ng/Kg	0.151U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0414 ng/Kg	0.0414U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0468 ng/Kg	0.0468U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0789 ng/Kg	0.0789U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0575 ng/Kg	0.0575U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.144 ng/Kg	0.144U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.194 ng/Kg	0.194U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0574 ng/Kg	0.0574U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0752 ng/Kg	0.0752U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0652 ng/Kg	0.0652U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	OCDD	2.18 ng/Kg	2.18U ng/Kg
SL-115-SA5DN-SB-4.0-5.0(RES)	OCDF	0.229 ng/Kg	0.229U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.575 ng/Kg	0.575U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.149 ng/Kg	0.149U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0562 ng/Kg	0.0562U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0980 ng/Kg	0.0980U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0641 ng/Kg	0.0641U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.184 ng/Kg	0.184U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0703 ng/Kg	0.0703U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.116 ng/Kg	0.116U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	OCDD	2.46 ng/Kg	2.46U ng/Kg
SL-122-SA5DN-SB-4.0-5.0(RES)	OCDF	0.406 ng/Kg	0.406U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB19-SA5DN-SB-062211	1,2,3,4,6,7,8-HPCDD	JB	6.72	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	1.03	10.2	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JB	0.337	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	1.72	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.474	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	1.47	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.585	10.2	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.652	10.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.301	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	3.02	10.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	1.29	10.2	PQL	pg/L	
	OCDD	JB	11.5	20.4	PQL	pg/L	
	OCDF	JB	5.99	20.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA5DN-QC-062211	1,2,3,4,6,7,8-HPCDD	JB	1.09	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.168	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0642	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0307	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0429	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.173	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0529	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.281	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.318	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0346	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0739	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0820	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0744	5.70	PQL	ng/Kg	
	OCDD	JB	8.04	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.415	11.4	PQL	ng/Kg	
DUP17-SA5DN-QC-062411	1,2,3,4,6,7,8-HPCDD	JB	1.06	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.166	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0570	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0376	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0362	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.109	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0405	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.145	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.186	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0379	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0422	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0529	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0694	5.81	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0269	1.16	PQL	ng/Kg	
	OCDF	JB	0.364	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-091-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.21	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	3.05	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.133	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.583	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.410	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	4.51	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.487	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.75	5.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0937	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.587	1.19	PQL	ng/Kg	
	OCDF	JB	4.90	11.9	PQL	ng/Kg	
SL-092-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.836	5.54	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.235	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0884	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0539	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0955	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.108	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0757	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.147	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.178	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0984	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.114	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0924	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.123	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0268	1.11	PQL	ng/Kg	
	OCDD	JB	4.99	11.1	PQL	ng/Kg	
	OCDF	JB	0.583	11.1	PQL	ng/Kg	
SL-092-SA5DN-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	1.78	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.434	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.285	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.203	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.260	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.321	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.202	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.346	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.296	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.257	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.217	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.293	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.288	5.81	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0734	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0373	1.16	PQL	ng/Kg	
	OCDF	JB	1.01	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-100-SA5DN-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	4.87	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.552	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0984	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0483	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0688	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.201	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0628	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.177	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.121	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0342	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0470	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.102	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.105	5.63	PQL	ng/Kg	
	OCDF	JB	1.54	11.3	PQL	ng/Kg	
SL-101-SA5DN-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.594	5.18	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.100	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0467	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0367	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0604	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0238	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0572	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0914	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0164	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0620	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0544	5.18	PQL	ng/Kg	
	OCDD	JB	4.06	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.265	10.4	PQL	ng/Kg	
SL-102-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.70	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.107	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0884	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.110	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.446	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0852	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.237	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.138	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0449	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0285	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.101	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0685	5.23	PQL	ng/Kg	
	OCDF	JB	5.67	10.5	PQL	ng/Kg	
SL-103-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.412	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.386	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.456	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.00	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.272	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.04	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.282	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.222	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.426	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.360	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.254	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0481	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.111	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA5DN-SB-7.0-8.0	1,2,3,4,7,8,9-HPCDF	JB	0.692	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.314	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.865	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.24	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.441	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.36	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.315	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.121	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.103	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.962	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.204	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0486	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0369	1.16	PQL	ng/Kg	
SL-104-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.537	5.49	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.139	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0654	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.137	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.150	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.128	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.151	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.130	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.141	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.200	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.259	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.115	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.248	5.49	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0663	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0572	1.10	PQL	ng/Kg	
	OCDD	JB	3.86	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.201	11.0	PQL	ng/Kg	
SL-105-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.414	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.567	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.664	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.71	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.461	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.60	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.862	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.551	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.560	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.413	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.551	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.112	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.254	1.07	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-106-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.21	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.630	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0673	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0437	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0878	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.435	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0950	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.624	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.676	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.165	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.248	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.110	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.163	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0517	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0466	1.11	PQL	ng/Kg	
	OCDF	JB	1.54	11.1	PQL	ng/Kg	
SL-106-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.548	5.49	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.119	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.140	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0470	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0324	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0543	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0610	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0713	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.126	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0503	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0692	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0856	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.111	5.49	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0339	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0438	1.10	PQL	ng/Kg	
	OCDD	JB	2.78	11.0	PQL	ng/Kg	
	OCDF	JB	0.405	11.0	PQL	ng/Kg	
SL-107-SA5DN-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.773	5.43	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.204	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.180	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0547	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0876	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0853	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0667	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.108	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.190	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0632	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0775	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.109	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0976	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0461	1.09	PQL	ng/Kg	
	OCDD	JB	5.43	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.649	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-109-SA5DN-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.756	5.10	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.134	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0490	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0229	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0358	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0440	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0197	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0495	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0541	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0277	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0699	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0526	5.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0332	1.02	PQL	ng/Kg	
	OCDD	JB	6.83	10.2	PQL	ng/Kg	
	OCDF	JB	0.351	10.2	PQL	ng/Kg	
SL-110-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.41	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.434	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0908	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0274	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0707	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.161	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0488	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.120	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0529	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0457	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0436	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0970	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0858	5.42	PQL	ng/Kg	
	OCDF	JB	1.23	10.8	PQL	ng/Kg	
SL-115-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.763	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.151	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0702	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0414	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0468	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0789	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0575	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.144	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.194	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0574	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0752	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0830	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0652	5.62	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0520	1.12	PQL	ng/Kg	
	OCDD	JB	2.18	11.2	PQL	ng/Kg	
	OCDF	JB	0.229	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX105 **Laboratory: LL**

EDD Filename: DX105_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-122-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.575	5.61	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.149	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0582	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0562	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.110	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0980	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0641	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.184	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.221	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0703	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.116	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.130	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.124	5.61	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0484	1.12	PQL	ng/Kg	
	OCDD	JB	2.46	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.406	11.2	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX106

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
27-June-2011	SL-077-SA5DN-SB-9.0-10.0	6329382	N	METHOD	1613B	III
27-June-2011	SL-078-SA5DN-SB-4.0-5.0	6329383	N	METHOD	1613B	III
27-June-2011	SL-078-SA5DN-SB-9.0-10.0	6329384	N	METHOD	1613B	III
27-June-2011	SL-085-SA5DN-SB-2.5-3.5	6329385	N	METHOD	1613B	III
27-June-2011	SL-123-SA5DN-SB-2.5-3.5	6329386	N	METHOD	1613B	III
27-June-2011	SL-077-SA5DN-SB-4.0-5.0	6329381	N	METHOD	1613B	III
28-June-2011	SL-141-SA5DN-SB-4.0-5.0	6331392	N	METHOD	1613B	III
28-June-2011	SL-116-SA5DN-SB-2.0-3.0	6331387	N	METHOD	1613B	III
28-June-2011	SL-116-SA5DN-SB-2.0-3.0MS	6331388	MS	METHOD	1613B	III
28-June-2011	SL-116-SA5DN-SB-2.0-3.0MSD	6331389	MSD	METHOD	1613B	III
28-June-2011	SL-132-SA5DN-SB-4.0-5.0	6331391	N	METHOD	1613B	III
28-June-2011	SL-143-SA5DN-SB-4.0-5.0	6331393	N	METHOD	1613B	III
28-June-2011	DUP18-SA5DN-QC-062811	6331394	FD	METHOD	1613B	III
28-June-2011	SL-131-SA5DN-SB-3.5-4.5	6331390	N	METHOD	1613B	III
29-June-2011	EB20-SA5DN-SB-062911	6332126	EB	METHOD	1613B	III
29-June-2011	SL-128-SA5DN-SB-4.0-5.0	6332119	N	METHOD	1613B	III
29-June-2011	SL-129-SA5DN-SB-2.5-3.5	6332120	N	METHOD	1613B	III
29-June-2011	SL-152-SA5DN-SB-2.5-3.5	6332121	N	METHOD	1613B	III
29-June-2011	SL-154-SA5DN-SB-4.0-5.0	6332122	N	METHOD	1613B	III
29-June-2011	SL-154-SA5DN-SB-9.0-10.0	6332123	N	METHOD	1613B	III
29-June-2011	SL-165-SA5DN-SB-4.0-5.0	6332124	N	METHOD	1613B	III
29-June-2011	SL-165-SA5DN-SB-9.0-10.0	6332125	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB20-SA5DN-SB-062911 *Collected:* 6/29/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.13	JB	0.366	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.59	JB	0.139	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.596	JBQ	0.174	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.420	JB	0.178	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.495	JB	0.221	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.492	JBQ	0.165	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.247	JB	0.214	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.506	JB	0.187	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.292	JBQ	0.136	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.708	JB	0.160	MDL	10.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.743	JBQ	0.124	MDL	10.2	PQL	pg/L	U	B
OCDD	10.0	JB	0.292	MDL	20.4	PQL	pg/L	U	B
OCDF	2.18	JBQ	0.383	MDL	20.4	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.462	JBQ	0.0341	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0615	JBQ	0.00674	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0611	JBQ	0.0161	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0337	JQ	0.0223	MDL	5.35	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0240	JBQ	0.0145	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0752	JBQ	0.0224	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0285	JBQ	0.0117	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.102	JB	0.0229	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.106	JBQ	0.0193	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0338	JB	0.0238	MDL	5.35	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0348	JBQ	0.0113	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0400	JB	0.0140	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0394	JB	0.0122	MDL	5.35	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0280	U	0.0280	MDL	1.07	PQL	ng/Kg	UJ	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory:** LL

EDD Filename: DX106_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP18-SA5DN-QC-062811 *Collected:* 6/28/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0233	U	0.0233	MDL	1.07	PQL	ng/Kg	UJ	FD
OCDD	1.71	JB	0.0229	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.184	JB	0.0451	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-077-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.34	JB	0.0505	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.315	JB	0.0170	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0567	JBQ	0.0283	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0755	JB	0.0197	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.103	JBQ	0.0271	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0681	JBQ	0.0169	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0958	JB	0.0260	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.133	JB	0.0240	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0683	JBQ	0.0192	MDL	5.86	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0756	JBQ	0.0185	MDL	5.86	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0784	JBQ	0.0182	MDL	5.86	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0530	J	0.0425	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0385	J	0.0330	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	0.576	JB	0.0500	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-077-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.993	JB	0.0278	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.224	JB	0.0100	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0211	JBQ	0.0159	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0377	JB	0.0134	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0727	JBQ	0.0195	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0394	JB	0.0117	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0695	JB	0.0195	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0610	JBQ	0.0161	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0353	JBQ	0.0233	MDL	5.97	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0232	JBQ	0.0118	MDL	5.97	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory:** LL

EDD Filename: DX106_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-077-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0857	JB	0.0130	MDL	5.97	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0556	JBQ	0.0120	MDL	5.97	PQL	ng/Kg	U	B
OCDD	10.7	JB	0.0209	MDL	11.9	PQL	ng/Kg	J	Z
OCDF	0.307	JB	0.0297	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-078-SA5DN-SB-4.0-5.0 *Collected:* 6/27/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.651	JB	0.0257	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.191	JBQ	0.00929	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0340	JBQ	0.0151	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0288	JBQ	0.0134	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0259	JBQ	0.0110	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0719	JBQ	0.0160	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0605	JBQ	0.0138	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0194	JBQ	0.00883	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0602	JBQ	0.00999	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0371	JBQ	0.00906	MDL	5.74	PQL	ng/Kg	U	B
OCDD	9.18	JB	0.0224	MDL	11.5	PQL	ng/Kg	J	Z
OCDF	0.325	JB	0.0302	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-078-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.17	JB	0.0258	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.15	JB	0.00978	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.175	JB	0.0163	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0378	J	0.0170	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0570	JB	0.0155	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.107	JB	0.0170	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0399	JBQ	0.0137	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0791	JB	0.0170	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0406	JBQ	0.0155	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0284	JBQ	0.0148	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0254	JBQ	0.00875	MDL	5.54	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 Laboratory: LL

EDD Filename: DX106_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-078-SA5DN-SB-9.0-10.0 *Collected:* 6/27/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0729	JB	0.0144	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0403	JBQ	0.00852	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0182	JQ	0.0159	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	6.95	JB	0.0273	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-085-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.17	JB	0.0171	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.132	JB	0.00594	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0368	JBQ	0.0117	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0217	JQ	0.0147	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0361	JB	0.00851	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0807	JB	0.0146	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0176	JBQ	0.00676	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0891	JB	0.0143	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0859	JB	0.0114	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0409	JBQ	0.0127	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0230	JBQ	0.00641	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0459	JBQ	0.00793	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0539	JB	0.00664	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0128	JQ	0.0119	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	10.7	JB	0.0162	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.257	JB	0.0191	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.446	JB	0.0249	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.161	JB	0.00646	MDL	5.34	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0876	JB	0.0147	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0924	J	0.0188	MDL	5.34	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.151	JB	0.0147	MDL	5.34	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.180	JB	0.0191	MDL	5.34	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.163	JB	0.0117	MDL	5.34	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory:** LL

EDD Filename: DX106_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-116-SA5DN-SB-2.0-3.0 *Collected:* 6/28/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.143	JB	0.0185	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.142	JB	0.0177	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.173	JBQ	0.0193	MDL	5.34	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.208	JB	0.0105	MDL	5.34	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.155	JB	0.0139	MDL	5.34	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.208	JB	0.0115	MDL	5.34	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0496	J	0.0220	MDL	1.07	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0575	JQ	0.0163	MDL	1.07	PQL	ng/Kg	J	Z, FD
OCDD	1.36	JB	0.0198	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.177	JB	0.0404	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-123-SA5DN-SB-2.5-3.5 *Collected:* 6/27/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.915	JB	0.0164	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.165	JB	0.00545	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0721	JB	0.0109	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0892	J	0.0141	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.105	JBQ	0.0103	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.131	JB	0.0137	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0927	JB	0.00802	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.121	JB	0.0128	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.115	JBQ	0.0118	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.106	JBQ	0.0127	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.124	JB	0.00578	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.104	JB	0.00845	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.156	JB	0.00610	MDL	5.34	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0449	J	0.0127	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0423	J	0.0109	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	8.05	JB	0.0132	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.294	JB	0.0178	MDL	10.7	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 Laboratory: LL

EDD Filename: DX106_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-128-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.628	JB	0.0326	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0656	JB	0.00695	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0461	JB	0.0206	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0292	JBQ	0.0155	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0565	JBQ	0.0209	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0247	JB	0.0116	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0767	JBQ	0.0188	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0169	JBQ	0.0114	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0555	JB	0.0145	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0578	JB	0.0121	MDL	5.72	PQL	ng/Kg	U	B
OCDD	2.32	JB	0.0272	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.183	JB	0.0599	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-129-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 10:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.17	JB	0.0137	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.235	JB	0.0304	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.150	J	0.0397	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.160	JBQ	0.0289	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.560	JB	0.0391	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.154	JB	0.0244	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.394	JBQ	0.0401	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.111	JB	0.0383	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0956	JB	0.0365	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.190	JB	0.0189	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.167	JB	0.0270	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.124	JB	0.0186	MDL	5.12	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0376	JQ	0.0334	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0619	JQ	0.0436	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	2.64	JB	0.0461	MDL	10.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory:** LL

EDD Filename: DX106_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-131-SA5DN-SB-3.5-4.5 *Collected:* 6/28/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.957	JB	0.0213	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.185	JB	0.00654	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0738	JBQ	0.0124	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.101	J	0.0177	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.142	JB	0.0134	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.125	JB	0.0180	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.129	JB	0.0112	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.175	JB	0.0177	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.117	JB	0.0176	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.221	JB	0.0188	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.243	JB	0.00891	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.125	JB	0.0133	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.229	JB	0.00891	MDL	5.58	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0711	JQ	0.0212	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0674	JQ	0.0177	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	9.10	JB	0.0197	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.296	JB	0.0223	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-132-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 2:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.21	JB	0.0417	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.169	JB	0.0137	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0487	JBQ	0.0269	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.108	J	0.0246	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0838	JBQ	0.0191	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0925	JB	0.0244	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0707	JB	0.0152	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.106	JB	0.0250	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0958	JB	0.0238	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.133	JBQ	0.0290	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.123	JB	0.0144	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0899	JBQ	0.0175	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.150	JBQ	0.0145	MDL	5.52	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-132-SA5DN-SB-4.0-5.0** ***Collected:*** **6/28/2011 2:09:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0636	JQ	0.0342	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0371	JQ	0.0275	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.453	JB	0.0462	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: **SL-141-SA5DN-SB-4.0-5.0** ***Collected:*** **6/28/2011 2:48:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.41	JB	0.0596	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.514	JQ	0.0634	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.480	JB	0.0406	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.40	JB	0.0661	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.453	JB	0.0325	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.23	JB	0.0652	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.181	JB	0.0577	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.260	JB	0.0516	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.511	JB	0.0284	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.676	JB	0.0393	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.220	JB	0.0311	MDL	5.38	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0490	JQ	0.0334	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.241	J	0.0692	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: **SL-143-SA5DN-SB-4.0-5.0** ***Collected:*** **6/28/2011 3:19:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.609	JB	0.0456	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0953	JB	0.00923	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0341	JBQ	0.0244	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0267	JB	0.0161	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0663	JBQ	0.0278	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0200	JBQ	0.0123	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0897	JBQ	0.0278	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0469	JBQ	0.0220	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0727	JBQ	0.0278	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0602	JBQ	0.0146	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0603	JB	0.0142	MDL	5.66	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory:** LL

EDD Filename: DX106_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-143-SA5DN-SB-4.0-5.0 *Collected:* 6/28/2011 3:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	2.42	JB	0.0296	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.154	JB	0.0722	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-152-SA5DN-SB-2.5-3.5 *Collected:* 6/29/2011 9:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.662	JB	0.244	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.146	JBQ	0.0496	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.140	JB	0.0914	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.275	JBQ	0.151	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.186	JB	0.0693	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.291	JB	0.160	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.245	JBQ	0.202	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.177	JBQ	0.0864	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.206	JBQ	0.0880	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.270	JBQ	0.0914	MDL	5.28	PQL	ng/Kg	U	B
OCDD	1.04	JBQ	0.144	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.504	JB	0.0331	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.121	JB	0.00810	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0586	JBQ	0.0229	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0935	JQ	0.0241	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0927	JB	0.0186	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.109	JBQ	0.0234	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.112	JB	0.0145	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.133	JBQ	0.0239	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.138	JB	0.0273	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.122	JB	0.0251	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.180	JB	0.0131	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.111	JBQ	0.0172	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.176	JB	0.0148	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0636	J	0.0299	MDL	1.09	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory:** LL

EDD Filename: DX106_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-154-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 7:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0308	J	0.0270	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	1.88	JB	0.0223	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.334	JBQ	0.0597	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-154-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.519	JBQ	0.0348	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0940	JB	0.00805	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0212	JBQ	0.0207	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0564	J	0.0218	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0699	JB	0.0160	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0826	JBQ	0.0223	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0728	JBQ	0.0128	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0792	JB	0.0219	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0867	JB	0.0231	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.119	JBQ	0.0267	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.136	JB	0.0124	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0716	JBQ	0.0159	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.128	JB	0.0134	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0563	J	0.0319	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	1.04	JB	0.0236	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.170	JBQ	0.0523	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.918	JB	0.0375	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.156	JB	0.00824	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0308	JBQ	0.0190	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0388	JQ	0.0212	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0521	JB	0.0148	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0269	JBQ	0.0212	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0282	JBQ	0.0119	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0526	JBQ	0.0217	MDL	5.47	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 Laboratory: LL

EDD Filename: DX106_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-165-SA5DN-SB-4.0-5.0 *Collected:* 6/29/2011 2:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0206	JB	0.0204	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0146	JB	0.0120	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0657	JBQ	0.0137	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0435	JB	0.0128	MDL	5.47	PQL	ng/Kg	U	B
OCDD	3.79	JB	0.0227	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.355	JBQ	0.0475	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-165-SA5DN-SB-9.0-10.0 *Collected:* 6/29/2011 2:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.343	JB	0.0511	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.171	J	0.0465	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.341	JB	0.0358	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.850	JB	0.0483	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.276	JB	0.0369	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.431	JB	0.0486	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.115	JBQ	0.0446	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.191	JBQ	0.0400	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.359	JBQ	0.0430	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.386	JB	0.0363	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.548	JB	0.0403	MDL	5.30	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0546	JQ	0.0429	MDL	1.06	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX106

Method Blank Outlier Report

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1860B370312	7/8/2011 3:12:00 AM	1,2,3,4,6,7,8-HPCDD	5.77 pg/L	EB20-SA5DN-SB-062911
		1,2,3,4,6,7,8-HPCDF	3.35 pg/L	
		1,2,3,4,7,8,9-HPCDF	1.08 pg/L	
		1,2,3,4,7,8-HxCDD	0.514 pg/L	
		1,2,3,4,7,8-HXCDF	0.682 pg/L	
		1,2,3,6,7,8-HXCDD	0.924 pg/L	
		1,2,3,6,7,8-HXCDF	0.769 pg/L	
		1,2,3,7,8,9-HXCDD	0.771 pg/L	
		1,2,3,7,8,9-HXCDF	1.09 pg/L	
		1,2,3,7,8-PECDD	0.288 pg/L	
		1,2,3,7,8-PECDF	0.586 pg/L	
		2,3,4,6,7,8-HXCDF	1.21 pg/L	
		2,3,4,7,8-PECDF	1.01 pg/L	
		2,3,7,8-TCDD	0.502 pg/L	
		OCDD	11.0 pg/L	
		OCDF	3.55 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB20-SA5DN-SB-062911(RES)	1,2,3,4,6,7,8-HPCDD	5.13 pg/L	5.13U pg/L
EB20-SA5DN-SB-062911(RES)	1,2,3,4,6,7,8-HPCDF	2.59 pg/L	2.59U pg/L
EB20-SA5DN-SB-062911(RES)	1,2,3,4,7,8,9-HPCDF	0.596 pg/L	0.596U pg/L
EB20-SA5DN-SB-062911(RES)	1,2,3,4,7,8-HXCDF	0.420 pg/L	0.420U pg/L
EB20-SA5DN-SB-062911(RES)	1,2,3,6,7,8-HXCDD	0.495 pg/L	0.495U pg/L
EB20-SA5DN-SB-062911(RES)	1,2,3,6,7,8-HXCDF	0.492 pg/L	0.492U pg/L
EB20-SA5DN-SB-062911(RES)	1,2,3,7,8,9-HXCDD	0.247 pg/L	0.247U pg/L
EB20-SA5DN-SB-062911(RES)	1,2,3,7,8,9-HXCDF	0.506 pg/L	0.506U pg/L
EB20-SA5DN-SB-062911(RES)	1,2,3,7,8-PECDF	0.292 pg/L	0.292U pg/L
EB20-SA5DN-SB-062911(RES)	2,3,4,6,7,8-HXCDF	0.708 pg/L	0.708U pg/L
EB20-SA5DN-SB-062911(RES)	2,3,4,7,8-PECDF	0.743 pg/L	0.743U pg/L
EB20-SA5DN-SB-062911(RES)	OCDD	10.0 pg/L	10.0U pg/L
EB20-SA5DN-SB-062911(RES)	OCDF	2.18 pg/L	2.18U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1920B371327	7/13/2011 1:27:00 PM	1,2,3,4,6,7,8-HPCDD	0.357 ng/Kg	DUP18-SA5DN-QC-062811
		1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	SL-077-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0302 ng/Kg	SL-077-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0231 ng/Kg	SL-078-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0165 ng/Kg	SL-078-SA5DN-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0279 ng/Kg	SL-085-SA5DN-SB-2.5-3.5
		1,2,3,7,8,9-HXCDD	0.0415 ng/Kg	SL-116-SA5DN-SB-2.0-3.0
		1,2,3,7,8,9-HXCDF	0.0363 ng/Kg	SL-123-SA5DN-SB-2.5-3.5
		1,2,3,7,8-PECDD	0.0276 ng/Kg	SL-128-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0203 ng/Kg	SL-129-SA5DN-SB-2.5-3.5
		2,3,4,6,7,8-HXCDF	0.0544 ng/Kg	SL-131-SA5DN-SB-3.5-4.5
		2,3,4,7,8-PECDF	0.0649 ng/Kg	SL-132-SA5DN-SB-4.0-5.0
		OCDD	0.715 ng/Kg	SL-141-SA5DN-SB-4.0-5.0
		OCDF	0.189 ng/Kg	SL-143-SA5DN-SB-4.0-5.0
				SL-152-SA5DN-SB-2.5-3.5
				SL-154-SA5DN-SB-4.0-5.0
				SL-154-SA5DN-SB-9.0-10.0
				SL-165-SA5DN-SB-4.0-5.0
				SL-165-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP18-SA5DN-QC-062811(RES)	1,2,3,4,6,7,8-HPCDD	0.462 ng/Kg	0.462U ng/Kg
DUP18-SA5DN-QC-062811(RES)	1,2,3,4,6,7,8-HPCDF	0.0615 ng/Kg	0.0615U ng/Kg
DUP18-SA5DN-QC-062811(RES)	1,2,3,4,7,8,9-HPCDF	0.0611 ng/Kg	0.0611U ng/Kg
DUP18-SA5DN-QC-062811(RES)	1,2,3,4,7,8-HXCDF	0.0240 ng/Kg	0.0240U ng/Kg
DUP18-SA5DN-QC-062811(RES)	1,2,3,6,7,8-HXCDD	0.0752 ng/Kg	0.0752U ng/Kg
DUP18-SA5DN-QC-062811(RES)	1,2,3,6,7,8-HXCDF	0.0285 ng/Kg	0.0285U ng/Kg
DUP18-SA5DN-QC-062811(RES)	1,2,3,7,8,9-HXCDD	0.102 ng/Kg	0.102U ng/Kg
DUP18-SA5DN-QC-062811(RES)	1,2,3,7,8,9-HXCDF	0.106 ng/Kg	0.106U ng/Kg
DUP18-SA5DN-QC-062811(RES)	1,2,3,7,8-PECDD	0.0338 ng/Kg	0.0338U ng/Kg
DUP18-SA5DN-QC-062811(RES)	1,2,3,7,8-PECDF	0.0348 ng/Kg	0.0348U ng/Kg
DUP18-SA5DN-QC-062811(RES)	2,3,4,6,7,8-HXCDF	0.0400 ng/Kg	0.0400U ng/Kg
DUP18-SA5DN-QC-062811(RES)	2,3,4,7,8-PECDF	0.0394 ng/Kg	0.0394U ng/Kg
DUP18-SA5DN-QC-062811(RES)	OCDD	1.71 ng/Kg	1.71U ng/Kg
DUP18-SA5DN-QC-062811(RES)	OCDF	0.184 ng/Kg	0.184U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.34 ng/Kg	1.34U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.315 ng/Kg	0.315U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0567 ng/Kg	0.0567U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0755 ng/Kg	0.0755U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0681 ng/Kg	0.0681U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0958 ng/Kg	0.0958U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0683 ng/Kg	0.0683U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0756 ng/Kg	0.0756U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0784 ng/Kg	0.0784U ng/Kg
SL-077-SA5DN-SB-4.0-5.0(RES)	OCDF	0.576 ng/Kg	0.576U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-077-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.993 ng/Kg	0.993U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.224 ng/Kg	0.224U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0211 ng/Kg	0.0211U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0377 ng/Kg	0.0377U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0727 ng/Kg	0.0727U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0394 ng/Kg	0.0394U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0695 ng/Kg	0.0695U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0353 ng/Kg	0.0353U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0232 ng/Kg	0.0232U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0857 ng/Kg	0.0857U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0556 ng/Kg	0.0556U ng/Kg
SL-077-SA5DN-SB-9.0-10.0(RES)	OCDF	0.307 ng/Kg	0.307U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.651 ng/Kg	0.651U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0340 ng/Kg	0.0340U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0288 ng/Kg	0.0288U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0259 ng/Kg	0.0259U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0719 ng/Kg	0.0719U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0194 ng/Kg	0.0194U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0602 ng/Kg	0.0602U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0371 ng/Kg	0.0371U ng/Kg
SL-078-SA5DN-SB-4.0-5.0(RES)	OCDF	0.325 ng/Kg	0.325U ng/Kg
SL-078-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0570 ng/Kg	0.0570U ng/Kg
SL-078-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0399 ng/Kg	0.0399U ng/Kg
SL-078-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0791 ng/Kg	0.0791U ng/Kg
SL-078-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0406 ng/Kg	0.0406U ng/Kg
SL-078-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0284 ng/Kg	0.0284U ng/Kg
SL-078-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0254 ng/Kg	0.0254U ng/Kg
SL-078-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0729 ng/Kg	0.0729U ng/Kg
SL-078-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0403 ng/Kg	0.0403U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	1.17 ng/Kg	1.17U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.132 ng/Kg	0.132U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0368 ng/Kg	0.0368U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0807 ng/Kg	0.0807U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-085-SA5DN-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0176 ng/Kg	0.0176U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0891 ng/Kg	0.0891U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0859 ng/Kg	0.0859U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0409 ng/Kg	0.0409U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.0230 ng/Kg	0.0230U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0539 ng/Kg	0.0539U ng/Kg
SL-085-SA5DN-SB-2.5-3.5(RES)	OCDF	0.257 ng/Kg	0.257U ng/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.446 ng/Kg	0.446U ng/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.161 ng/Kg	0.161U ng/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0876 ng/Kg	0.0876U ng/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.143 ng/Kg	0.143U ng/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.208 ng/Kg	0.208U ng/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	OCDD	1.36 ng/Kg	1.36U ng/Kg
SL-116-SA5DN-SB-2.0-3.0(RES)	OCDF	0.177 ng/Kg	0.177U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.915 ng/Kg	0.915U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0721 ng/Kg	0.0721U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0927 ng/Kg	0.0927U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.121 ng/Kg	0.121U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.106 ng/Kg	0.106U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.156 ng/Kg	0.156U ng/Kg
SL-123-SA5DN-SB-2.5-3.5(RES)	OCDF	0.294 ng/Kg	0.294U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.628 ng/Kg	0.628U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0656 ng/Kg	0.0656U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0461 ng/Kg	0.0461U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0565 ng/Kg	0.0565U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0247 ng/Kg	0.0247U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0767 ng/Kg	0.0767U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0169 ng/Kg	0.0169U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0555 ng/Kg	0.0555U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-128-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0578 ng/Kg	0.0578U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	OCDD	2.32 ng/Kg	2.32U ng/Kg
SL-128-SA5DN-SB-4.0-5.0(RES)	OCDF	0.183 ng/Kg	0.183U ng/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0956 ng/Kg	0.0956U ng/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-129-SA5DN-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.957 ng/Kg	0.957U ng/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.185 ng/Kg	0.185U ng/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0738 ng/Kg	0.0738U ng/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.175 ng/Kg	0.175U ng/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.229 ng/Kg	0.229U ng/Kg
SL-131-SA5DN-SB-3.5-4.5(RES)	OCDF	0.296 ng/Kg	0.296U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.21 ng/Kg	1.21U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.169 ng/Kg	0.169U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0838 ng/Kg	0.0838U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0707 ng/Kg	0.0707U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.106 ng/Kg	0.106U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0958 ng/Kg	0.0958U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.133 ng/Kg	0.133U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0899 ng/Kg	0.0899U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.150 ng/Kg	0.150U ng/Kg
SL-132-SA5DN-SB-4.0-5.0(RES)	OCDF	0.453 ng/Kg	0.453U ng/Kg
SL-141-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.181 ng/Kg	0.181U ng/Kg
SL-141-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.220 ng/Kg	0.220U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.609 ng/Kg	0.609U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0953 ng/Kg	0.0953U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0341 ng/Kg	0.0341U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0663 ng/Kg	0.0663U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0200 ng/Kg	0.0200U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0897 ng/Kg	0.0897U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0469 ng/Kg	0.0469U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-143-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0727 ng/Kg	0.0727U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0602 ng/Kg	0.0602U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0603 ng/Kg	0.0603U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	OCDD	2.42 ng/Kg	2.42U ng/Kg
SL-143-SA5DN-SB-4.0-5.0(RES)	OCDF	0.154 ng/Kg	0.154U ng/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.662 ng/Kg	0.662U ng/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.146 ng/Kg	0.146U ng/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.206 ng/Kg	0.206U ng/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.270 ng/Kg	0.270U ng/Kg
SL-152-SA5DN-SB-2.5-3.5(RES)	OCDD	1.04 ng/Kg	1.04U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.504 ng/Kg	0.504U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0586 ng/Kg	0.0586U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0927 ng/Kg	0.0927U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.133 ng/Kg	0.133U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.122 ng/Kg	0.122U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.176 ng/Kg	0.176U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	OCDD	1.88 ng/Kg	1.88U ng/Kg
SL-154-SA5DN-SB-4.0-5.0(RES)	OCDF	0.334 ng/Kg	0.334U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.519 ng/Kg	0.519U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0940 ng/Kg	0.0940U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0212 ng/Kg	0.0212U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0699 ng/Kg	0.0699U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0728 ng/Kg	0.0728U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0792 ng/Kg	0.0792U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0867 ng/Kg	0.0867U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.119 ng/Kg	0.119U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0716 ng/Kg	0.0716U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.128 ng/Kg	0.128U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	OCDD	1.04 ng/Kg	1.04U ng/Kg
SL-154-SA5DN-SB-9.0-10.0(RES)	OCDF	0.170 ng/Kg	0.170U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.918 ng/Kg	0.918U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.156 ng/Kg	0.156U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0308 ng/Kg	0.0308U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-165-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0269 ng/Kg	0.0269U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0282 ng/Kg	0.0282U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0526 ng/Kg	0.0526U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0206 ng/Kg	0.0206U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0146 ng/Kg	0.0146U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0657 ng/Kg	0.0657U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0435 ng/Kg	0.0435U ng/Kg
SL-165-SA5DN-SB-4.0-5.0(RES)	OCDF	0.355 ng/Kg	0.355U ng/Kg
SL-165-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.115 ng/Kg	0.115U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
MOISTURE	7.1	8.0	12		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-116-SA5DN-SB-2.0-3.0	DUP18-SA5DN-QC-062811			
1,2,3,4,6,7,8-HPCDD	0.446	0.462	4	50.00	No Qualifiers Applied
1,2,3,4,7,8,9-HPCDF	0.0876	0.0611	36	50.00	
1,2,3,7,8,9-HXCDD	0.143	0.102	33	50.00	
1,2,3,7,8,9-HXCDF	0.142	0.106	29	50.00	
OCDD	1.36	1.71	23	50.00	
OCDF	0.177	0.184	4	50.00	
1,2,3,4,6,7,8-HPCDF	0.161	0.0615	89	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HxCDD	0.0924	0.0337	93	50.00	
1,2,3,4,7,8-HXCDF	0.151	0.0240	145	50.00	
1,2,3,6,7,8-HXCDD	0.180	0.0752	82	50.00	
1,2,3,6,7,8-HXCDF	0.163	0.0285	140	50.00	
1,2,3,7,8-PECDD	0.173	0.0338	135	50.00	
1,2,3,7,8-PECDF	0.208	0.0348	143	50.00	
2,3,4,6,7,8-HXCDF	0.155	0.0400	118	50.00	
2,3,4,7,8-PECDF	0.208	0.0394	136	50.00	
2,3,7,8-TCDD	0.0496	1.07 U	200	50.00	
2,3,7,8-TCDF	0.0575	1.07 U	200	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB20-SA5DN-SB-062911	1,2,3,4,6,7,8-HPCDD	JB	5.13	10.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	2.59	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.596	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.420	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.495	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.492	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JB	0.247	10.2	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.506	10.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.292	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.708	10.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.743	10.2	PQL	pg/L	
	OCDD	JB	10.0	20.4	PQL	pg/L	
	OCDF	JBQ	2.18	20.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP18-SA5DN-QC-062811	1,2,3,4,6,7,8-HPCDD	JBQ	0.462	5.35	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0615	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0611	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0337	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0240	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0752	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0285	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.102	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.106	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0338	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0348	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0400	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0394	5.35	PQL	ng/Kg	
	OCDD	JB	1.71	10.7	PQL	ng/Kg	
	OCDF	JB	0.184	10.7	PQL	ng/Kg	
SL-077-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.34	5.86	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.315	5.86	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0567	5.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0755	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.103	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0681	5.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0958	5.86	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.133	5.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0683	5.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0756	5.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0784	5.86	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0530	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0385	1.17	PQL	ng/Kg	
	OCDF	JB	0.576	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-077-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.993	5.97	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.224	5.97	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0211	5.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0377	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0727	5.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0394	5.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0695	5.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0610	5.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0353	5.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0232	5.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0857	5.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0556	5.97	PQL	ng/Kg	
	OCDD	JB	10.7	11.9	PQL	ng/Kg	
	OCDF	JB	0.307	11.9	PQL	ng/Kg	
SL-078-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.651	5.74	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.191	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0340	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0288	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0259	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0719	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0605	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0194	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0602	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0371	5.74	PQL	ng/Kg	
	OCDD	JB	9.18	11.5	PQL	ng/Kg	
	OCDF	JB	0.325	11.5	PQL	ng/Kg	
SL-078-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	4.17	5.54	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.15	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.175	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0378	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0570	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.107	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0399	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0791	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0406	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0284	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0254	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0729	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0403	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0182	1.11	PQL	ng/Kg	
	OCDF	JB	6.95	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA5DN-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	1.17	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.132	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0368	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0217	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0361	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0807	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0176	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0891	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0859	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0409	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0230	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0459	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0539	5.71	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0128	1.14	PQL	ng/Kg	
	OCDD	JB	10.7	11.4	PQL	ng/Kg	
	OCDF	JB	0.257	11.4	PQL	ng/Kg	
SL-116-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.446	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.161	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0876	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0924	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.151	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.180	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.163	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.143	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.142	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.173	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.208	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.155	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.208	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0496	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0575	1.07	PQL	ng/Kg	
	OCDD	JB	1.36	10.7	PQL	ng/Kg	
	OCDF	JB	0.177	10.7	PQL	ng/Kg	
SL-123-SA5DN-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.915	5.34	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.165	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0721	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0892	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.105	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.131	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0927	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.121	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.115	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.106	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.124	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.104	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.156	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0449	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0423	1.07	PQL	ng/Kg	
	OCDD	JB	8.05	10.7	PQL	ng/Kg	
	OCDF	JB	0.294	10.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.628	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0656	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0461	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0292	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0565	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0247	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0767	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0169	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0555	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0578	5.72	PQL	ng/Kg	
	OCDD	JB	2.32	11.4	PQL	ng/Kg	
	OCDF	JB	0.183	11.4	PQL	ng/Kg	
SL-129-SA5DN-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDF	JB	1.17	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.235	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.150	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.160	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.560	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.154	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.394	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.111	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0956	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.167	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.124	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0376	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0619	1.02	PQL	ng/Kg	
	OCDF	JB	2.64	10.2	PQL	ng/Kg	
SL-131-SA5DN-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.957	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.185	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0738	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.101	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.142	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.125	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.129	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.175	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.117	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.221	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.243	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.125	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.229	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0711	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0674	1.12	PQL	ng/Kg	
	OCDD	JB	9.10	11.2	PQL	ng/Kg	
	OCDF	JB	0.296	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.21	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.169	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0487	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.108	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0838	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0925	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0707	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.106	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0958	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.133	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.123	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0899	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.150	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0636	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0371	1.10	PQL	ng/Kg	
	OCDF	JB	0.453	11.0	PQL	ng/Kg	
SL-141-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.41	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.514	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.480	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.40	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.453	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.23	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.181	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.260	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.511	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.676	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.220	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0490	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.241	1.08	PQL	ng/Kg	
SL-143-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.609	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0953	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0341	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0267	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0663	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0200	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0897	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0469	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0727	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0602	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0603	5.66	PQL	ng/Kg	
	OCDD	JB	2.42	11.3	PQL	ng/Kg	
	OCDF	JB	0.154	11.3	PQL	ng/Kg	
SL-152-SA5DN-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.662	5.28	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.146	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.140	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.275	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.186	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.291	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.245	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.177	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.206	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.270	5.28	PQL	ng/Kg	
	OCDD	JBQ	1.04	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-154-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.504	5.45	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.121	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0586	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0935	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0927	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.109	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.112	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.133	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.138	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.122	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.180	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.111	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.176	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0636	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0308	1.09	PQL	ng/Kg	
	OCDD	JB	1.88	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.334	10.9	PQL	ng/Kg	
SL-154-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.519	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0940	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0212	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0564	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0699	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0826	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0728	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0792	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0867	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.119	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.136	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0716	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.128	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0563	1.13	PQL	ng/Kg	
	OCDD	JB	1.04	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.170	11.3	PQL	ng/Kg	
SL-165-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.918	5.47	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.156	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0308	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0388	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0521	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0269	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0282	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0526	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0206	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0146	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0657	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0435	5.47	PQL	ng/Kg	
	OCDD	JB	3.79	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.355	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX106 **Laboratory: LL**

EDD Filename: DX106_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-165-SA5DN-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	0.343	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.171	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.341	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.850	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.276	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.431	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.115	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.191	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.359	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.386	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.548	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0546	1.06	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX107

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Jun-2011	SL-181-SA5DN-SB-4.0-5.0	6333642	N	METHOD	1613B	III
30-Jun-2011	SL-181-SA5DN-SB-9.0-10.0	6333643	N	METHOD	1613B	III
30-Jun-2011	SL-182-SA5DN-SB-4.0-5.0	6333644	N	METHOD	1613B	III
30-Jun-2011	SL-182-SA5DN-SB-9.0-10.0	6333645	N	METHOD	1613B	III
30-Jun-2011	SL-184-SA5DN-SB-4.0-5.0	6333646	N	METHOD	1613B	III
30-Jun-2011	SL-184-SA5DN-SB-9.0-10.0	6333647	N	METHOD	1613B	III
30-Jun-2011	SL-197-SA5DN-SB-4.0-5.0	6333652	N	METHOD	1613B	III
30-Jun-2011	SL-197-SA5DN-SB-9.0-10.0	6333653	N	METHOD	1613B	III
30-Jun-2011	SL-196-SA5DN-SB-4.0-5.0	6333650	N	METHOD	1613B	III
30-Jun-2011	SL-196-SA5DN-SB-9.0-10.0	6333651	N	METHOD	1613B	III
30-Jun-2011	SL-203-SA5DN-SB-4.0-5.0	6333654	N	METHOD	1613B	III
30-Jun-2011	SL-203-SA5DN-SB-9.0-10.0	6333655	N	METHOD	1613B	III
30-Jun-2011	SL-187-SA5DN-SB-4.0-5.0	6333648	N	METHOD	1613B	III
30-Jun-2011	SL-187-SA5DN-SB-9.0-10.0	6333649	N	METHOD	1613B	III
05-Jul-2011	SL-186-SA5DN-SB-4.0-5.0	6335841	N	METHOD	1613B	III
05-Jul-2011	SL-194-SA5DN-SB-4.0-5.0	6335843	N	METHOD	1613B	III
05-Jul-2011	SL-194-SA5DN-SB-9.0-10.0	6335844	N	METHOD	1613B	III
05-Jul-2011	SL-195-SA5DN-SB-4.0-5.0	6335845	N	METHOD	1613B	III
05-Jul-2011	SL-195-SA5DN-SB-9.0-10.0	6335846	N	METHOD	1613B	III
05-Jul-2011	SL-192-SA5DN-SB-4.0-5.0	6335842	N	METHOD	1613B	III

III = EPA Level 3 Data Review
IV = EPA Level 4 Data Validation
N = Normal Sample
FD = Field Duplicate
TB = Trip Blank
FB = Field Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory:** LL

EDD Filename: DX107_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-181-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.16	JB	0.0362	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.362	JB	0.0113	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0814	JBQ	0.0177	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.112	JBQ	0.0201	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0647	JB	0.0201	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0702	JB	0.0182	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0777	JB	0.0201	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0583	JBQ	0.0220	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0721	JQ	0.0283	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0962	JBQ	0.0153	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.120	JBQ	0.0191	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.108	JB	0.0151	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0441	JBQ	0.0312	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0425	J	0.0283	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	0.395	JB	0.0333	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-181-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 7:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.21	JB	0.0481	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.314	JBQ	0.0131	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0460	JBQ	0.0216	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0719	JBQ	0.0195	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0462	JBQ	0.0234	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0596	JB	0.0169	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0773	JBQ	0.0239	MDL	5.96	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0459	JQ	0.0332	MDL	5.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0461	JBQ	0.0178	MDL	5.96	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.111	JBQ	0.0195	MDL	5.96	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.114	JBQ	0.0165	MDL	5.96	PQL	ng/Kg	U	B
OCDD	11.3	JB	0.0307	MDL	11.9	PQL	ng/Kg	J	Z
OCDF	0.357	JBQ	0.0461	MDL	11.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 Laboratory: LL

EDD Filename: DX107_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-182-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.711	JB	0.0411	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.219	JB	0.0101	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0682	JBQ	0.0205	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0884	JB	0.0200	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.109	JB	0.0290	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0539	JBQ	0.0168	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.251	JBQ	0.0288	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.423	JB	0.0260	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.106	JBQ	0.0157	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0938	JB	0.0186	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0557	JBQ	0.0161	MDL	5.62	PQL	ng/Kg	U	B
OCDD	3.06	JB	0.0245	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.319	JB	0.0501	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-182-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.548	JB	0.0307	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.228	JB	0.0142	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0422	JBQ	0.0241	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0688	JB	0.0142	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0287	JBQ	0.0185	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0350	JBQ	0.0122	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0600	JBQ	0.0186	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0511	JBQ	0.0178	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0258	JQ	0.0209	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0195	JBQ	0.0121	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0819	JB	0.0137	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.103	JBQ	0.0111	MDL	5.68	PQL	ng/Kg	U	B
OCDD	2.54	JB	0.0212	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.281	JBQ	0.0332	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory:** LL

EDD Filename: DX107_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-184-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 8:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.24	JB	0.0403	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.764	JB	0.0136	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.108	JB	0.0245	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0582	JB	0.0400	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.297	JB	0.0352	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.297	JB	0.0396	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.191	JBQ	0.0299	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.324	JB	0.0395	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.232	JBQ	0.0381	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.105	JQ	0.0364	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.204	JBQ	0.0269	MDL	5.54	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.294	JB	0.0333	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.666	JB	0.0281	MDL	5.54	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.188	J	0.0503	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.28	JB	0.0473	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-184-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 9:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.580	JB	0.0314	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.183	JB	0.00771	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0462	JBQ	0.0150	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0419	JB	0.0117	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0295	JBQ	0.0189	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0448	JB	0.0103	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0425	JB	0.0183	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0140	JBQ	0.0129	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0389	J	0.0222	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0254	JBQ	0.0113	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0779	JBQ	0.0113	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0665	JB	0.0113	MDL	5.75	PQL	ng/Kg	U	B
OCDD	1.88	JB	0.0243	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.174	JB	0.0340	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory:** LL

EDD Filename: DX107_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.579	JB	0.0237	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0807	JBQ	0.00654	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0597	JB	0.0155	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0361	JB	0.0145	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0319	JBQ	0.0119	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.114	JBQ	0.0151	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0359	JBQ	0.00981	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.224	JB	0.0145	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.324	JB	0.0143	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0499	JBQ	0.0155	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0929	JB	0.00806	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0405	JBQ	0.0112	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0693	JB	0.00853	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0195	JBQ	0.0145	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0147	JQ	0.0127	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	2.10	JB	0.0369	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.194	JBQ	0.0284	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.67	JB	0.0313	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.212	JBQ	0.0144	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0444	JBQ	0.0227	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.129	JBQ	0.0292	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.123	JBQ	0.0179	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.195	JB	0.0288	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0982	JB	0.0156	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.353	JB	0.0288	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.478	JB	0.0203	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.119	J	0.0251	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.207	JB	0.0135	MDL	5.59	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0872	JBQ	0.0164	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.162	JBQ	0.0127	MDL	5.59	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory:** LL

EDD Filename: DX107_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-187-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0310	JQ	0.0293	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	0.382	JB	0.0347	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-187-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.718	JB	0.0356	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.299	JB	0.0113	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.102	JBQ	0.0182	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.133	JB	0.0251	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.208	JB	0.0201	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.154	JBQ	0.0260	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.212	JB	0.0183	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.160	JBQ	0.0250	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.174	JB	0.0238	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.253	J	0.0306	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.288	JB	0.0154	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.174	JB	0.0181	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.290	JB	0.0146	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0600	JBQ	0.0274	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0882	J	0.0252	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	2.72	JB	0.0266	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.337	JBQ	0.0403	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.746	JB	0.0282	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0810	JBQ	0.00803	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0429	JBQ	0.0171	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0154	JB	0.0130	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0184	JBQ	0.0104	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0648	JB	0.0134	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0285	JBQ	0.00838	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0909	JBQ	0.0129	MDL	5.79	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory:** LL

EDD Filename: DX107_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-192-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 12:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.160	JBQ	0.0118	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0176	JB	0.0133	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0148	JBQ	0.00792	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0307	JBQ	0.00966	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0573	JBQ	0.00815	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0208	JQ	0.0123	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	3.95	JB	0.0228	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.161	JBQ	0.0268	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-194-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 9:15:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.77	JB	0.0394	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.345	JB	0.0107	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0432	JBQ	0.0208	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0742	JB	0.0245	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0898	JB	0.0159	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.157	JB	0.0250	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0746	JBQ	0.0130	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.245	JBQ	0.0249	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.312	JB	0.0194	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.143	JQ	0.0269	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.169	JB	0.0112	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0838	JBQ	0.0143	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.146	JB	0.0122	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0385	JBQ	0.0295	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0540	J	0.0243	MDL	1.13	PQL	ng/Kg	J	Z
OCDF	1.23	JB	0.0461	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.17	JB	0.0332	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.196	JB	0.00779	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0505	JBQ	0.0200	MDL	5.84	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory:** LL

EDD Filename: DX107_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-194-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0384	JB	0.0100	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0664	JB	0.0153	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0234	JB	0.00815	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0485	JB	0.0144	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0568	JBQ	0.0129	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0206	JBQ	0.0145	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0164	JB	0.00767	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0336	JBQ	0.00933	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0541	JBQ	0.00791	MDL	5.84	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0274	JBQ	0.0152	MDL	1.17	PQL	ng/Kg	U	B
OCDD	7.18	JB	0.0217	MDL	11.7	PQL	ng/Kg	J	Z
OCDF	0.520	JB	0.0338	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-195-SA5DN-SB-4.0-5.0 *Collected:* 7/5/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.519	JB	0.0194	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0763	JB	0.00632	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0269	JB	0.0156	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0265	JBQ	0.0139	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0185	JBQ	0.0104	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.129	JBQ	0.0143	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0245	JB	0.00842	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.145	JBQ	0.0144	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.295	JB	0.0130	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0597	JBQ	0.00702	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0207	JBQ	0.00947	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0373	JBQ	0.00749	MDL	5.67	PQL	ng/Kg	U	B
OCDD	3.18	JB	0.0240	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.130	JB	0.0310	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.65	JB	0.0323	MDL	5.79	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory:** LL

EDD Filename: DX107_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-195-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.261	JB	0.0146	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0332	JBQ	0.0158	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0986	JBQ	0.0230	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0381	JB	0.0140	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0652	JBQ	0.0194	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0375	JB	0.0136	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0262	JQ	0.0227	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0261	JBQ	0.0113	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0594	JB	0.0107	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0512	JBQ	0.0115	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0297	JBQ	0.0244	MDL	1.16	PQL	ng/Kg	U	B
OCDF	0.490	JB	0.0386	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-196-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.01	JBQ	0.0337	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.254	JB	0.0147	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0572	JB	0.0251	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0791	JBQ	0.0296	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.130	JB	0.0209	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.199	JB	0.0301	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.120	JBQ	0.0184	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.340	JB	0.0280	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.413	JB	0.0238	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.138	J	0.0290	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.183	JB	0.0135	MDL	5.62	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.137	JB	0.0190	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.173	JB	0.0135	MDL	5.62	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0428	JBQ	0.0274	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0345	J	0.0298	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	4.41	JB	0.0225	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.328	JBQ	0.0377	MDL	11.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory:** LL

EDD Filename: DX107_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-196-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.548	JB	0.0333	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.224	JB	0.0116	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0643	JBQ	0.0187	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0382	JB	0.0234	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0845	JBQ	0.0150	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0685	JBQ	0.0232	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0408	JB	0.0134	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0925	JB	0.0216	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0738	JBQ	0.0176	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0441	J	0.0265	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0494	JBQ	0.0120	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0874	JBQ	0.0141	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0779	JBQ	0.0121	MDL	5.57	PQL	ng/Kg	U	B
OCDD	2.55	JB	0.0247	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.335	JBQ	0.0325	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-197-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 11:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.761	JB	0.0366	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.259	JBQ	0.0109	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0237	JBQ	0.0192	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0292	JBQ	0.0271	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0667	JB	0.0201	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.141	JB	0.0265	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0343	JB	0.0173	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.301	JB	0.0262	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.276	JBQ	0.0227	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0414	JQ	0.0327	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0778	JB	0.0145	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0970	JB	0.0175	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0758	JB	0.0140	MDL	5.62	PQL	ng/Kg	U	B
OCDD	3.10	JB	0.0296	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.289	JB	0.0426	MDL	11.2	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-197-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.634	JB	0.0331	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.149	JB	0.0102	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0234	JB	0.0161	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0318	JBQ	0.0187	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0253	JBQ	0.0196	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0273	JB	0.0167	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0496	JBQ	0.0188	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0569	JBQ	0.0171	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0547	JBQ	0.0130	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0819	JB	0.0134	MDL	5.78	PQL	ng/Kg	U	B
OCDD	2.94	JB	0.0247	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.183	JB	0.0371	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-203-SA5DN-SB-4.0-5.0 *Collected:* 6/30/2011 1:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.764	JB	0.0328	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.140	JBQ	0.00739	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0246	JBQ	0.0125	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0292	JB	0.0265	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.173	JB	0.0265	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0304	JB	0.0136	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.307	JB	0.0240	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.414	JB	0.0179	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0498	JQ	0.0260	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0954	JB	0.0113	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0510	JBQ	0.0147	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0774	JBQ	0.0123	MDL	5.74	PQL	ng/Kg	U	B
OCDD	3.73	JB	0.0239	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.251	JBQ	0.0348	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.604	JB	0.0320	MDL	5.75	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 Laboratory: LL

EDD Filename: DX107_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-203-SA5DN-SB-9.0-10.0 *Collected:* 6/30/2011 2:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.127	JBQ	0.00902	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0314	JB	0.0157	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0428	JB	0.0173	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0594	JB	0.0192	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0169	JB	0.0138	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0362	JB	0.0188	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0284	JBQ	0.0156	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0295	J	0.0258	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0265	JBQ	0.0126	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0476	JB	0.0116	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0440	JB	0.0136	MDL	5.75	PQL	ng/Kg	U	B
OCDD	2.34	JB	0.0280	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.188	JB	0.0392	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX107

Method Blank Outlier Report

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2000B371504	7/22/2011 3:04:00 PM	1,2,3,4,6,7,8-HPCDD	0.435 ng/Kg	SL-181-SA5DN-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.186 ng/Kg	SL-181-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8,9-HPCDF	0.0707 ng/Kg	SL-182-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0348 ng/Kg	SL-182-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0660 ng/Kg	SL-184-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0452 ng/Kg	SL-184-SA5DN-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0447 ng/Kg	SL-187-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0497 ng/Kg	SL-187-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0517 ng/Kg	SL-194-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0351 ng/Kg	SL-195-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.111 ng/Kg	SL-196-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0888 ng/Kg	SL-196-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDD	0.0409 ng/Kg	SL-197-SA5DN-SB-4.0-5.0
		OCDD	0.915 ng/Kg	SL-197-SA5DN-SB-9.0-10.0
		OCDF	0.300 ng/Kg	SL-203-SA5DN-SB-4.0-5.0
				SL-203-SA5DN-SB-9.0-10.0
BLK2070B370640	7/29/2011 6:40:00 AM	1,2,3,4,6,7,8-HPCDD	0.349 ng/Kg	SL-186-SA5DN-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.0945 ng/Kg	SL-192-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0650 ng/Kg	SL-194-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0167 ng/Kg	SL-195-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0418 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0256 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0189 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0406 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0653 ng/Kg	
		1,2,3,7,8-PECDD	0.0265 ng/Kg	
		1,2,3,7,8-PECDF	0.0236 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0463 ng/Kg	
		2,3,4,7,8-PECDF	0.0579 ng/Kg	
		2,3,7,8-TCDD	0.0142 ng/Kg	
		OCDD	0.791 ng/Kg	
		OCDF	0.205 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-181-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.16 ng/Kg	1.16U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.362 ng/Kg	0.362U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0814 ng/Kg	0.0814U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0647 ng/Kg	0.0647U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0777 ng/Kg	0.0777U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0583 ng/Kg	0.0583U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0962 ng/Kg	0.0962U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.108 ng/Kg	0.108U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0441 ng/Kg	0.0441U ng/Kg
SL-181-SA5DN-SB-4.0-5.0(RES)	OCDF	0.395 ng/Kg	0.395U ng/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.21 ng/Kg	1.21U ng/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.314 ng/Kg	0.314U ng/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0460 ng/Kg	0.0460U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-181-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0719 ng/Kg	0.0719U ng/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0462 ng/Kg	0.0462U ng/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0596 ng/Kg	0.0596U ng/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0773 ng/Kg	0.0773U ng/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0461 ng/Kg	0.0461U ng/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.114 ng/Kg	0.114U ng/Kg
SL-181-SA5DN-SB-9.0-10.0(RES)	OCDF	0.357 ng/Kg	0.357U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.711 ng/Kg	0.711U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.219 ng/Kg	0.219U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0884 ng/Kg	0.0884U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0539 ng/Kg	0.0539U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0938 ng/Kg	0.0938U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0557 ng/Kg	0.0557U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	OCDD	3.06 ng/Kg	3.06U ng/Kg
SL-182-SA5DN-SB-4.0-5.0(RES)	OCDF	0.319 ng/Kg	0.319U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.548 ng/Kg	0.548U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.228 ng/Kg	0.228U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0688 ng/Kg	0.0688U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0287 ng/Kg	0.0287U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0350 ng/Kg	0.0350U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0600 ng/Kg	0.0600U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0195 ng/Kg	0.0195U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0819 ng/Kg	0.0819U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	OCDD	2.54 ng/Kg	2.54U ng/Kg
SL-182-SA5DN-SB-9.0-10.0(RES)	OCDF	0.281 ng/Kg	0.281U ng/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.764 ng/Kg	0.764U ng/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0582 ng/Kg	0.0582U ng/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.297 ng/Kg	0.297U ng/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.191 ng/Kg	0.191U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-184-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.232 ng/Kg	0.232U ng/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.294 ng/Kg	0.294U ng/Kg
SL-184-SA5DN-SB-4.0-5.0(RES)	OCDF	1.28 ng/Kg	1.28U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.580 ng/Kg	0.580U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.183 ng/Kg	0.183U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0462 ng/Kg	0.0462U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0295 ng/Kg	0.0295U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0448 ng/Kg	0.0448U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0425 ng/Kg	0.0425U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0140 ng/Kg	0.0140U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0254 ng/Kg	0.0254U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0779 ng/Kg	0.0779U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0665 ng/Kg	0.0665U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	OCDD	1.88 ng/Kg	1.88U ng/Kg
SL-184-SA5DN-SB-9.0-10.0(RES)	OCDF	0.174 ng/Kg	0.174U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.579 ng/Kg	0.579U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0807 ng/Kg	0.0807U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0361 ng/Kg	0.0361U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0319 ng/Kg	0.0319U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0359 ng/Kg	0.0359U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.324 ng/Kg	0.324U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0499 ng/Kg	0.0499U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0929 ng/Kg	0.0929U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0405 ng/Kg	0.0405U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0693 ng/Kg	0.0693U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0195 ng/Kg	0.0195U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	OCDD	2.10 ng/Kg	2.10U ng/Kg
SL-186-SA5DN-SB-4.0-5.0(RES)	OCDF	0.194 ng/Kg	0.194U ng/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.67 ng/Kg	1.67U ng/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.212 ng/Kg	0.212U ng/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0444 ng/Kg	0.0444U ng/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.129 ng/Kg	0.129U ng/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.123 ng/Kg	0.123U ng/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.195 ng/Kg	0.195U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-187-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0982 ng/Kg	0.0982U ng/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0872 ng/Kg	0.0872U ng/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.162 ng/Kg	0.162U ng/Kg
SL-187-SA5DN-SB-4.0-5.0(RES)	OCDF	0.382 ng/Kg	0.382U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.718 ng/Kg	0.718U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.299 ng/Kg	0.299U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.133 ng/Kg	0.133U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.208 ng/Kg	0.208U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.154 ng/Kg	0.154U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.160 ng/Kg	0.160U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.290 ng/Kg	0.290U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0600 ng/Kg	0.0600U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	OCDD	2.72 ng/Kg	2.72U ng/Kg
SL-187-SA5DN-SB-9.0-10.0(RES)	OCDF	0.337 ng/Kg	0.337U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.746 ng/Kg	0.746U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0810 ng/Kg	0.0810U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0429 ng/Kg	0.0429U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0154 ng/Kg	0.0154U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0184 ng/Kg	0.0184U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0648 ng/Kg	0.0648U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0285 ng/Kg	0.0285U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0909 ng/Kg	0.0909U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0176 ng/Kg	0.0176U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0148 ng/Kg	0.0148U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0573 ng/Kg	0.0573U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	OCDD	3.95 ng/Kg	3.95U ng/Kg
SL-192-SA5DN-SB-4.0-5.0(RES)	OCDF	0.161 ng/Kg	0.161U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.77 ng/Kg	1.77U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.345 ng/Kg	0.345U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0432 ng/Kg	0.0432U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0742 ng/Kg	0.0742U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-194-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0898 ng/Kg	0.0898U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.157 ng/Kg	0.157U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0746 ng/Kg	0.0746U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.245 ng/Kg	0.245U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.169 ng/Kg	0.169U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0838 ng/Kg	0.0838U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.146 ng/Kg	0.146U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0385 ng/Kg	0.0385U ng/Kg
SL-194-SA5DN-SB-4.0-5.0(RES)	OCDF	1.23 ng/Kg	1.23U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.17 ng/Kg	1.17U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.196 ng/Kg	0.196U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0505 ng/Kg	0.0505U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0384 ng/Kg	0.0384U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0664 ng/Kg	0.0664U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0234 ng/Kg	0.0234U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0485 ng/Kg	0.0485U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0568 ng/Kg	0.0568U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0206 ng/Kg	0.0206U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0164 ng/Kg	0.0164U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0274 ng/Kg	0.0274U ng/Kg
SL-194-SA5DN-SB-9.0-10.0(RES)	OCDF	0.520 ng/Kg	0.520U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.519 ng/Kg	0.519U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0763 ng/Kg	0.0763U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0269 ng/Kg	0.0269U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0265 ng/Kg	0.0265U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0185 ng/Kg	0.0185U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0245 ng/Kg	0.0245U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.145 ng/Kg	0.145U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.295 ng/Kg	0.295U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0207 ng/Kg	0.0207U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0373 ng/Kg	0.0373U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	OCDD	3.18 ng/Kg	3.18U ng/Kg
SL-195-SA5DN-SB-4.0-5.0(RES)	OCDF	0.130 ng/Kg	0.130U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.65 ng/Kg	1.65U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-195-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.261 ng/Kg	0.261U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0332 ng/Kg	0.0332U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0986 ng/Kg	0.0986U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0652 ng/Kg	0.0652U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0375 ng/Kg	0.0375U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0261 ng/Kg	0.0261U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0512 ng/Kg	0.0512U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0297 ng/Kg	0.0297U ng/Kg
SL-195-SA5DN-SB-9.0-10.0(RES)	OCDF	0.490 ng/Kg	0.490U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.01 ng/Kg	1.01U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.254 ng/Kg	0.254U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0572 ng/Kg	0.0572U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0791 ng/Kg	0.0791U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.199 ng/Kg	0.199U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.137 ng/Kg	0.137U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.173 ng/Kg	0.173U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0428 ng/Kg	0.0428U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	OCDD	4.41 ng/Kg	4.41U ng/Kg
SL-196-SA5DN-SB-4.0-5.0(RES)	OCDF	0.328 ng/Kg	0.328U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.548 ng/Kg	0.548U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.224 ng/Kg	0.224U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0643 ng/Kg	0.0643U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0382 ng/Kg	0.0382U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0845 ng/Kg	0.0845U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0685 ng/Kg	0.0685U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0925 ng/Kg	0.0925U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0738 ng/Kg	0.0738U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0494 ng/Kg	0.0494U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0874 ng/Kg	0.0874U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0779 ng/Kg	0.0779U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	OCDD	2.55 ng/Kg	2.55U ng/Kg
SL-196-SA5DN-SB-9.0-10.0(RES)	OCDF	0.335 ng/Kg	0.335U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-197-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.761 ng/Kg	0.761U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.259 ng/Kg	0.259U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0237 ng/Kg	0.0237U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0292 ng/Kg	0.0292U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.141 ng/Kg	0.141U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0343 ng/Kg	0.0343U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0778 ng/Kg	0.0778U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0970 ng/Kg	0.0970U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0758 ng/Kg	0.0758U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	OCDD	3.10 ng/Kg	3.10U ng/Kg
SL-197-SA5DN-SB-4.0-5.0(RES)	OCDF	0.289 ng/Kg	0.289U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.634 ng/Kg	0.634U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.149 ng/Kg	0.149U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0234 ng/Kg	0.0234U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0318 ng/Kg	0.0318U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0253 ng/Kg	0.0253U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0273 ng/Kg	0.0273U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0496 ng/Kg	0.0496U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0547 ng/Kg	0.0547U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0819 ng/Kg	0.0819U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	OCDD	2.94 ng/Kg	2.94U ng/Kg
SL-197-SA5DN-SB-9.0-10.0(RES)	OCDF	0.183 ng/Kg	0.183U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.764 ng/Kg	0.764U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.140 ng/Kg	0.140U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0246 ng/Kg	0.0246U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0292 ng/Kg	0.0292U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.173 ng/Kg	0.173U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0304 ng/Kg	0.0304U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0954 ng/Kg	0.0954U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0510 ng/Kg	0.0510U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0774 ng/Kg	0.0774U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	OCDD	3.73 ng/Kg	3.73U ng/Kg
SL-203-SA5DN-SB-4.0-5.0(RES)	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.604 ng/Kg	0.604U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.127 ng/Kg	0.127U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-203-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0314 ng/Kg	0.0314U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0428 ng/Kg	0.0428U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0594 ng/Kg	0.0594U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0169 ng/Kg	0.0169U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0362 ng/Kg	0.0362U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0284 ng/Kg	0.0284U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0265 ng/Kg	0.0265U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0440 ng/Kg	0.0440U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	OCDD	2.34 ng/Kg	2.34U ng/Kg
SL-203-SA5DN-SB-9.0-10.0(RES)	OCDF	0.188 ng/Kg	0.188U ng/Kg

Reporting Limit Outliers

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-181-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.16	5.55	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.362	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0814	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.112	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0647	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0702	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0777	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0583	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0721	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0962	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.120	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.108	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0441	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0425	1.11	PQL	ng/Kg	
	OCDF	JB	0.395	11.1	PQL	ng/Kg	
SL-181-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.21	5.96	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.314	5.96	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0460	5.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0719	5.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0462	5.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0596	5.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0773	5.96	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0459	5.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0461	5.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.111	5.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.114	5.96	PQL	ng/Kg	
	OCDD	JB	11.3	11.9	PQL	ng/Kg	
	OCDF	JBQ	0.357	11.9	PQL	ng/Kg	
SL-182-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.711	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.219	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0682	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0884	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.109	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0539	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.251	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.423	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.106	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0938	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0557	5.62	PQL	ng/Kg	
	OCDD	JB	3.06	11.2	PQL	ng/Kg	
	OCDF	JB	0.319	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-182-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.548	5.68	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.228	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0422	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0688	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0287	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0350	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0600	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0511	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0258	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0195	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0819	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.103	5.68	PQL	ng/Kg	
	OCDD	JB	2.54	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.281	11.4	PQL	ng/Kg	
SL-184-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	4.24	5.54	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.764	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.108	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0582	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.297	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.297	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.191	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.324	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.232	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.105	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.204	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.294	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.666	5.54	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.188	1.11	PQL	ng/Kg	
	OCDF	JB	1.28	11.1	PQL	ng/Kg	
SL-184-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.580	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.183	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0462	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0419	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0295	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0448	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0425	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0140	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0389	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0254	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0779	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0665	5.75	PQL	ng/Kg	
	OCDD	JB	1.88	11.5	PQL	ng/Kg	
	OCDF	JB	0.174	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-186-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.579	5.80	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0807	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0597	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0361	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0319	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.114	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0359	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.224	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.324	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0499	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0929	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0405	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0693	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0195	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0147	1.16	PQL	ng/Kg	
	OCDD	JB	2.10	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.194	11.6	PQL	ng/Kg	
SL-187-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.67	5.59	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.212	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0444	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.129	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.123	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.195	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0982	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.353	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.478	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.119	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.207	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0872	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.162	5.59	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0310	1.12	PQL	ng/Kg	
	OCDF	JB	0.382	11.2	PQL	ng/Kg	
SL-187-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.718	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.299	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.102	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.133	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.208	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.154	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.212	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.160	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.174	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.253	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.288	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.174	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.290	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0600	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0882	1.14	PQL	ng/Kg	
	OCDD	JB	2.72	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.337	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.746	5.79	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0810	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0429	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0154	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0184	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0648	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0285	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0909	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.160	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0176	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0148	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0307	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0573	5.79	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0208	1.16	PQL	ng/Kg	
	OCDD	JB	3.95	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.161	11.6	PQL	ng/Kg	
SL-194-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.77	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.345	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0432	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0742	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0898	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.157	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0746	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.245	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.312	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.143	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.169	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0838	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.146	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0385	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0540	1.13	PQL	ng/Kg	
	OCDF	JB	1.23	11.3	PQL	ng/Kg	
SL-194-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.17	5.84	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.196	5.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0505	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0384	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0664	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0234	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0485	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0568	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0206	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0164	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0336	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0541	5.84	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0274	1.17	PQL	ng/Kg	
	OCDD	JB	7.18	11.7	PQL	ng/Kg	
	OCDF	JB	0.520	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-195-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.519	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0763	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0269	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0265	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0185	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.129	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0245	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.145	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.295	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0597	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0207	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0373	5.67	PQL	ng/Kg	
	OCDD	JB	3.18	11.3	PQL	ng/Kg	
	OCDF	JB	0.130	11.3	PQL	ng/Kg	
SL-195-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.65	5.79	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.261	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0332	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0986	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0381	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0652	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0375	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0262	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0261	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0594	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0512	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0297	1.16	PQL	ng/Kg	
	OCDF	JB	0.490	11.6	PQL	ng/Kg	
SL-196-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	1.01	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.254	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0572	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0791	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.130	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.199	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.120	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.340	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.413	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.138	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.183	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.137	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.173	5.62	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0428	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0345	1.12	PQL	ng/Kg	
	OCDD	JB	4.41	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.328	11.2	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-196-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.548	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.224	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0643	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0382	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0845	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0685	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0408	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0925	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0738	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0441	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0494	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0874	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0779	5.57	PQL	ng/Kg	
	OCDD	JB	2.55	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.335	11.1	PQL	ng/Kg	
SL-197-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.761	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.259	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0237	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0292	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0667	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.141	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0343	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.301	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.276	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0414	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0778	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0970	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0758	5.62	PQL	ng/Kg	
	OCDD	JB	3.10	11.2	PQL	ng/Kg	
	OCDF	JB	0.289	11.2	PQL	ng/Kg	
SL-197-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.634	5.78	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.149	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0234	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0318	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0253	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0273	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0496	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0569	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0547	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0819	5.78	PQL	ng/Kg	
	OCDD	JB	2.94	11.6	PQL	ng/Kg	
	OCDF	JB	0.183	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX107 **Laboratory: LL**

EDD Filename: DX107_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-203-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.764	5.74	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.140	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0246	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0292	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.173	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0304	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.307	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.414	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0498	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0954	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0510	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0774	5.74	PQL	ng/Kg	
	OCDD	JB	3.73	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.251	11.5	PQL	ng/Kg	
SL-203-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.604	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.127	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0314	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0428	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0594	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0169	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0362	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0284	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0295	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0265	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0476	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0440	5.75	PQL	ng/Kg	
	OCDD	JB	2.34	11.5	PQL	ng/Kg	
	OCDF	JB	0.188	11.5	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX108

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
5-July-2011	SL-192-SA5DN-SB-9.0-10.0	6336233	N	METHOD	1613B	III
5-July-2011	SL-186-SA5DN-SB-9.0-10.0	6336232	N	METHOD	1613B	III
6-July-2011	DUP-19-SA5DN-QC-070611	6337154	FD	METHOD	1613B	III
6-July-2011	SL-205-SA5DN-SB-9.0-10.0	6337153	N	METHOD	1613B	III
6-July-2011	SL-205-SA5DN-SB-4.0-5.0	6337152	N	METHOD	1613B	III
6-July-2011	SL-201-SA5DN-SB-9.0-10.0	6337151	N	METHOD	1613B	III
6-July-2011	SL-201-SA5DN-SB-4.0-5.0	6337150	N	METHOD	1613B	III
6-July-2011	SL-200-SA5DN-SB-9.0-10.0	6337149	N	METHOD	1613B	III
6-July-2011	SL-200-SA5DN-SB-4.0-5.0MSD	6337148	MSD	METHOD	1613B	III
6-July-2011	SL-200-SA5DN-SB-4.0-5.0MS	6337147	MS	METHOD	1613B	III
6-July-2011	SL-200-SA5DN-SB-4.0-5.0	6337146	N	METHOD	1613B	III
6-July-2011	SL-191-SA5DN-SB-9.0-10.0	6337145	N	METHOD	1613B	III
6-July-2011	SL-191-SA5DN-SB-4.0-5.0	6337144	N	METHOD	1613B	III
6-July-2011	SL-190-SA5DN-SB-9.0-10.0	6337143	N	METHOD	1613B	III
6-July-2011	SL-190-SA5DN-SB-4.0-5.0	6337142	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX108 **Laboratory:** LL

EDD Filename: DX108_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP-19-SA5DN-QC-070611 *Collected:* 7/6/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.417	JB	0.0208	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JB	0.00819	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0741	JB	0.0168	MDL	5.57	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0811	JB	0.0160	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.117	JB	0.0159	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.126	JB	0.0164	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.132	JBQ	0.0138	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.217	JB	0.0158	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.290	J	0.0186	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.171	JB	0.0150	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.224	JB	0.00924	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.134	JBQ	0.0154	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.192	JB	0.00901	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0386	JQ	0.0129	MDL	1.11	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0648	J	0.0120	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	0.894	JB	0.0201	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.148	JB	0.0195	MDL	11.1	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.631	JBQ	0.0229	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.434	JBQ	0.0108	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0846	JBQ	0.0181	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0198	JBQ	0.0124	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0881	JBQ	0.0171	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0412	JBQ	0.0131	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0605	JBQ	0.0141	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0308	JBQ	0.0124	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0775	JQ	0.0191	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0356	JBQ	0.00813	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.190	JBQ	0.0144	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.119	JBQ	0.00836	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0136	JQ	0.0134	MDL	1.14	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX108 **Laboratory:** LL

EDD Filename: DX108_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-186-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	3.44	JB	0.0214	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.378	JB	0.0203	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-190-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 10:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.461	JB	0.0201	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.335	JB	0.0119	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0872	JBQ	0.0183	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0956	JBQ	0.0209	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0765	JBQ	0.0147	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0610	JB	0.0174	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.171	JBQ	0.0141	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.306	J	0.0179	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0214	JBQ	0.0127	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.171	JBQ	0.0147	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.102	JBQ	0.00723	MDL	5.74	PQL	ng/Kg	U	B
OCDD	1.02	JB	0.0210	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.328	JB	0.0219	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.536	JB	0.0226	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.461	JB	0.0106	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.124	JB	0.0179	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0571	JB	0.0145	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.157	JB	0.0190	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0543	JB	0.0150	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.104	JBQ	0.0157	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0672	JB	0.0147	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0905	JQ	0.0192	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0537	JBQ	0.0141	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.113	JBQ	0.00926	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.220	JBQ	0.0161	MDL	5.79	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX108 **Laboratory:** LL

EDD Filename: DX108_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-190-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.184	JB	0.00938	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0181	JQ	0.0132	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0268	J	0.0177	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	1.26	JB	0.0189	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.384	JB	0.0256	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-191-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 7:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.535	JB	0.0211	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.212	JB	0.00896	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.107	JB	0.0190	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.148	JBQ	0.0224	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.255	JB	0.0226	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.308	JB	0.0232	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.225	JB	0.0183	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.497	JB	0.0219	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.624	J	0.0271	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.212	JBQ	0.0155	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.382	JBQ	0.0101	MDL	5.70	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.220	JBQ	0.0214	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.280	JBQ	0.0107	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0619	JQ	0.0144	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0571	J	0.0135	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	1.53	JB	0.0256	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.190	JB	0.0234	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.31	JB	0.0259	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.318	JB	0.0107	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0708	JBQ	0.0193	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.119	JB	0.0192	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.212	JB	0.0207	MDL	5.82	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX108 **Laboratory:** LL

EDD Filename: DX108_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-191-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 7:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.177	JB	0.0194	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.212	JB	0.0170	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.179	JB	0.0188	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.213	JQ	0.0224	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.272	JBQ	0.0149	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.436	JB	0.0105	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.170	JB	0.0199	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.375	JB	0.0105	MDL	5.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.127	J	0.0141	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.105	J	0.0160	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	9.64	JB	0.0248	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.495	JB	0.0241	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-192-SA5DN-SB-9.0-10.0 *Collected:* 7/5/2011 12:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.679	JB	0.0210	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.406	JB	0.0111	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.114	JB	0.0196	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0209	JB	0.0135	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.106	JB	0.0194	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0863	JB	0.0138	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0637	JB	0.0165	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.113	JB	0.0129	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.159	JQ	0.0197	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0193	JBQ	0.0125	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0400	JBQ	0.00820	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.200	JB	0.0152	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.102	JBQ	0.00831	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0131	JQ	0.0119	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0138	JQ	0.0135	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	3.14	JB	0.0145	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.412	JB	0.0227	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX108 **Laboratory:** LL

EDD Filename: DX108_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-200-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 9:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.461	JB	0.0314	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.133	JB	0.0119	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.134	JB	0.0248	MDL	5.53	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0640	JB	0.0203	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.105	JBQ	0.0180	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.122	JBQ	0.0209	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0923	JBQ	0.0147	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.239	JB	0.0200	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.349	J	0.0227	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.110	JB	0.0146	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.191	JB	0.00846	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0985	JBQ	0.0171	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.157	JB	0.00927	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0682	J	0.0137	MDL	1.11	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0390	J	0.0119	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	0.827	JB	0.0270	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.264	JBQ	0.0283	MDL	11.1	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.532	JB	0.0221	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.177	JB	0.00952	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.128	JBQ	0.0172	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0774	JBQ	0.0161	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.111	JB	0.0145	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0883	JB	0.0168	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0999	JB	0.0125	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.148	JBQ	0.0165	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.158	J	0.0157	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0794	JB	0.0154	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0724	JBQ	0.00881	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.126	JB	0.0135	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.124	JB	0.00846	MDL	5.81	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX108 **Laboratory:** LL

EDD Filename: DX108_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-200-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 9:25:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0280	JQ	0.0160	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0182	J	0.0130	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	1.08	JB	0.0241	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.354	JB	0.0260	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-201-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 2:35:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.490	JB	0.0198	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.118	JBQ	0.00807	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0781	JBQ	0.0175	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0221	JBQ	0.0142	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0473	JBQ	0.0123	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0871	JBQ	0.0146	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0409	JB	0.00994	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.166	JBQ	0.0138	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.231	JQ	0.0149	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0374	JBQ	0.0130	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0473	JBQ	0.00819	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0637	JBQ	0.0118	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0552	JB	0.00889	MDL	5.83	PQL	ng/Kg	U	B
OCDD	1.15	JB	0.0255	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.166	JB	0.0240	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-201-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 2:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.431	JB	0.0217	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.100	JBQ	0.00779	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0429	JBQ	0.0178	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0401	JBQ	0.0119	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0443	JBQ	0.0157	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0303	JBQ	0.00956	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0509	JBQ	0.0150	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0367	JQ	0.0145	MDL	5.81	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX108 **Laboratory:** LL

EDD Filename: DX108_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-201-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 2:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0286	JBQ	0.0162	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0257	JBQ	0.00921	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0731	JBQ	0.0111	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0566	JB	0.00945	MDL	5.81	PQL	ng/Kg	U	B
OCDD	0.844	JB	0.0264	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.169	JBQ	0.0254	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-205-SA5DN-SB-4.0-5.0 *Collected:* 7/6/2011 1:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.362	JB	0.0152	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0790	JB	0.00660	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0520	JB	0.0139	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0338	JBQ	0.0138	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.113	JBQ	0.0161	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0272	JBQ	0.0107	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.349	JB	0.0161	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.434	J	0.0149	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0256	JBQ	0.0117	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0979	JBQ	0.00718	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0440	JBQ	0.0116	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0456	JB	0.00730	MDL	5.69	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0117	J	0.00962	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	0.856	JB	0.0205	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.183	JBQ	0.0196	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.506	JB	0.0188	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.131	JB	0.00697	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0545	JBQ	0.0150	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0298	JBQ	0.0119	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0550	JB	0.0124	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0610	JB	0.0123	MDL	5.79	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX108 Laboratory: LL

EDD Filename: DX108_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-205-SA5DN-SB-9.0-10.0 *Collected:* 7/6/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0469	JBQ	0.00968	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0981	JB	0.0116	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0910	JQ	0.0145	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0580	JBQ	0.0120	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0883	JB	0.00826	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0853	JB	0.0109	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0982	JB	0.00909	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0210	JQ	0.0165	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	1.31	JB	0.0197	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.246	JB	0.0231	MDL	11.6	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX108

Method Blank Outlier Report

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1940B370051	7/15/2011 12:51:00 AM	1,2,3,4,6,7,8-HPCDD	0.412 ng/Kg	DUP-19-SA5DN-QC-070611
		1,2,3,4,6,7,8-HPCDF	0.341 ng/Kg	SL-186-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8,9-HPCDF	0.120 ng/Kg	SL-190-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0278 ng/Kg	SL-190-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0977 ng/Kg	SL-191-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0321 ng/Kg	SL-191-SA5DN-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0810 ng/Kg	SL-192-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0698 ng/Kg	SL-200-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0474 ng/Kg	SL-200-SA5DN-SB-9.0-10.0
		1,2,3,7,8-PECDF	0.0366 ng/Kg	SL-201-SA5DN-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.179 ng/Kg	SL-201-SA5DN-SB-9.0-10.0
		2,3,4,7,8-PECDF	0.104 ng/Kg	SL-205-SA5DN-SB-4.0-5.0
		OCDD	0.823 ng/Kg	SL-205-SA5DN-SB-9.0-10.0
		OCDF	0.418 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-19-SA5DN-QC-070611(RES)	1,2,3,4,6,7,8-HPCDD	0.417 ng/Kg	0.417U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	1,2,3,4,7,8,9-HPCDF	0.0741 ng/Kg	0.0741U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	1,2,3,4,7,8-HxCDD	0.0811 ng/Kg	0.0811U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	1,2,3,4,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	1,2,3,6,7,8-HXCDD	0.126 ng/Kg	0.126U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	1,2,3,6,7,8-HXCDF	0.132 ng/Kg	0.132U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	1,2,3,7,8,9-HXCDD	0.217 ng/Kg	0.217U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	1,2,3,7,8-PECDD	0.171 ng/Kg	0.171U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	2,3,4,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	2,3,4,7,8-PECDF	0.192 ng/Kg	0.192U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	OCDD	0.894 ng/Kg	0.894U ng/Kg
DUP-19-SA5DN-QC-070611(RES)	OCDF	0.148 ng/Kg	0.148U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.631 ng/Kg	0.631U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.434 ng/Kg	0.434U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0198 ng/Kg	0.0198U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0881 ng/Kg	0.0881U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0412 ng/Kg	0.0412U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0308 ng/Kg	0.0308U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0356 ng/Kg	0.0356U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.119 ng/Kg	0.119U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	OCDD	3.44 ng/Kg	3.44U ng/Kg
SL-186-SA5DN-SB-9.0-10.0(RES)	OCDF	0.378 ng/Kg	0.378U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.461 ng/Kg	0.461U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.335 ng/Kg	0.335U ng/Kg

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-190-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0872 ng/Kg	0.0872U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0956 ng/Kg	0.0956U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0765 ng/Kg	0.0765U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.171 ng/Kg	0.171U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0214 ng/Kg	0.0214U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.171 ng/Kg	0.171U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	OCDD	1.02 ng/Kg	1.02U ng/Kg
SL-190-SA5DN-SB-4.0-5.0(RES)	OCDF	0.328 ng/Kg	0.328U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.536 ng/Kg	0.536U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.461 ng/Kg	0.461U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0571 ng/Kg	0.0571U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0543 ng/Kg	0.0543U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0672 ng/Kg	0.0672U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0537 ng/Kg	0.0537U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.113 ng/Kg	0.113U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.220 ng/Kg	0.220U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.184 ng/Kg	0.184U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	OCDD	1.26 ng/Kg	1.26U ng/Kg
SL-190-SA5DN-SB-9.0-10.0(RES)	OCDF	0.384 ng/Kg	0.384U ng/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.535 ng/Kg	0.535U ng/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.212 ng/Kg	0.212U ng/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.107 ng/Kg	0.107U ng/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.255 ng/Kg	0.255U ng/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.225 ng/Kg	0.225U ng/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.212 ng/Kg	0.212U ng/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.220 ng/Kg	0.220U ng/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.280 ng/Kg	0.280U ng/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	OCDD	1.53 ng/Kg	1.53U ng/Kg
SL-191-SA5DN-SB-4.0-5.0(RES)	OCDF	0.190 ng/Kg	0.190U ng/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.31 ng/Kg	1.31U ng/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.318 ng/Kg	0.318U ng/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0708 ng/Kg	0.0708U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-191-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.119 ng/Kg	0.119U ng/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.179 ng/Kg	0.179U ng/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.375 ng/Kg	0.375U ng/Kg
SL-191-SA5DN-SB-9.0-10.0(RES)	OCDF	0.495 ng/Kg	0.495U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.679 ng/Kg	0.679U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.406 ng/Kg	0.406U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.114 ng/Kg	0.114U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0209 ng/Kg	0.0209U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0863 ng/Kg	0.0863U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0637 ng/Kg	0.0637U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.113 ng/Kg	0.113U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0193 ng/Kg	0.0193U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0400 ng/Kg	0.0400U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.200 ng/Kg	0.200U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	OCDD	3.14 ng/Kg	3.14U ng/Kg
SL-192-SA5DN-SB-9.0-10.0(RES)	OCDF	0.412 ng/Kg	0.412U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.461 ng/Kg	0.461U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0640 ng/Kg	0.0640U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0923 ng/Kg	0.0923U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.239 ng/Kg	0.239U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.110 ng/Kg	0.110U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0985 ng/Kg	0.0985U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.157 ng/Kg	0.157U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	OCDD	0.827 ng/Kg	0.827U ng/Kg
SL-200-SA5DN-SB-4.0-5.0(RES)	OCDF	0.264 ng/Kg	0.264U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.532 ng/Kg	0.532U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.177 ng/Kg	0.177U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.128 ng/Kg	0.128U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-200-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0774 ng/Kg	0.0774U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0883 ng/Kg	0.0883U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0999 ng/Kg	0.0999U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.148 ng/Kg	0.148U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0794 ng/Kg	0.0794U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0724 ng/Kg	0.0724U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.124 ng/Kg	0.124U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	OCDD	1.08 ng/Kg	1.08U ng/Kg
SL-200-SA5DN-SB-9.0-10.0(RES)	OCDF	0.354 ng/Kg	0.354U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.490 ng/Kg	0.490U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.118 ng/Kg	0.118U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0781 ng/Kg	0.0781U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0221 ng/Kg	0.0221U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0473 ng/Kg	0.0473U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0871 ng/Kg	0.0871U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0409 ng/Kg	0.0409U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.166 ng/Kg	0.166U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0374 ng/Kg	0.0374U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0473 ng/Kg	0.0473U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0637 ng/Kg	0.0637U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0552 ng/Kg	0.0552U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	OCDD	1.15 ng/Kg	1.15U ng/Kg
SL-201-SA5DN-SB-4.0-5.0(RES)	OCDF	0.166 ng/Kg	0.166U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.431 ng/Kg	0.431U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.100 ng/Kg	0.100U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0429 ng/Kg	0.0429U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0401 ng/Kg	0.0401U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0443 ng/Kg	0.0443U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0509 ng/Kg	0.0509U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0286 ng/Kg	0.0286U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0731 ng/Kg	0.0731U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0566 ng/Kg	0.0566U ng/Kg
SL-201-SA5DN-SB-9.0-10.0(RES)	OCDD	0.844 ng/Kg	0.844U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-201-SA5DN-SB-9.0-10.0(RES)	OCDF	0.169 ng/Kg	0.169U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.362 ng/Kg	0.362U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0790 ng/Kg	0.0790U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0520 ng/Kg	0.0520U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0338 ng/Kg	0.0338U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.113 ng/Kg	0.113U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0272 ng/Kg	0.0272U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.349 ng/Kg	0.349U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0256 ng/Kg	0.0256U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0979 ng/Kg	0.0979U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0440 ng/Kg	0.0440U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0456 ng/Kg	0.0456U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	OCDD	0.856 ng/Kg	0.856U ng/Kg
SL-205-SA5DN-SB-4.0-5.0(RES)	OCDF	0.183 ng/Kg	0.183U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.506 ng/Kg	0.506U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.131 ng/Kg	0.131U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0545 ng/Kg	0.0545U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0298 ng/Kg	0.0298U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0610 ng/Kg	0.0610U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0981 ng/Kg	0.0981U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0580 ng/Kg	0.0580U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0883 ng/Kg	0.0883U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0853 ng/Kg	0.0853U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0982 ng/Kg	0.0982U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	OCDD	1.31 ng/Kg	1.31U ng/Kg
SL-205-SA5DN-SB-9.0-10.0(RES)	OCDF	0.246 ng/Kg	0.246U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
MOISTURE	13.7	14.5	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-200-SA5DN-SB-4.0-5.0	DUP-19-SA5DN-QC-070611			
1,2,3,4,6,7,8-HPCDD	0.461	0.417	10	50.00	
1,2,3,4,6,7,8-HPCDF	0.133	0.122	9	50.00	
1,2,3,4,7,8-HxCDD	0.0640	0.0811	24	50.00	
1,2,3,4,7,8-HXCDF	0.105	0.117	11	50.00	
1,2,3,6,7,8-HXCDD	0.122	0.126	3	50.00	
1,2,3,6,7,8-HXCDF	0.0923	0.132	35	50.00	
1,2,3,7,8,9-HXCDD	0.239	0.217	10	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.349	0.290	18	50.00	
1,2,3,7,8-PECDD	0.110	0.171	43	50.00	
1,2,3,7,8-PECDF	0.191	0.224	16	50.00	
2,3,4,6,7,8-HXCDF	0.0985	0.134	31	50.00	
2,3,4,7,8-PECDF	0.157	0.192	20	50.00	
2,3,7,8-TCDF	0.0390	0.0648	50	50.00	
OCDD	0.827	0.894	8	50.00	
1,2,3,4,7,8,9-HPCDF	0.134	0.0741	58	50.00	J(all detects)
2,3,7,8-TCDD	0.0682	0.0386	55	50.00	
OCDF	0.264	0.148	56	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-19-SA5DN-QC-070611	1,2,3,4,6,7,8-HPCDD	JB	0.417	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.122	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0741	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0811	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.117	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.126	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.132	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.217	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.290	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.171	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.224	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.134	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.192	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0386	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0648	1.11	PQL	ng/Kg	
	OCDD	JB	0.894	11.1	PQL	ng/Kg	
	OCDF	JB	0.148	11.1	PQL	ng/Kg	
SL-186-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.631	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.434	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0846	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0198	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0881	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0412	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0605	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0308	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0775	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0356	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.190	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.119	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0136	1.14	PQL	ng/Kg	
	OCDD	JB	3.44	11.4	PQL	ng/Kg	
	OCDF	JB	0.378	11.4	PQL	ng/Kg	
SL-190-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.461	5.74	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.335	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0872	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0956	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0765	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0610	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.171	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	J	0.306	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0214	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.171	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.102	5.74	PQL	ng/Kg	
	OCDD	JB	1.02	11.5	PQL	ng/Kg	
	OCDF	JB	0.328	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.536	5.79	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.461	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.124	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0571	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.157	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0543	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.104	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0672	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0905	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0537	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.113	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.220	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.184	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0181	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0268	1.16	PQL	ng/Kg	
	OCDD	JB	1.26	11.6	PQL	ng/Kg	
	OCDF	JB	0.384	11.6	PQL	ng/Kg	
SL-191-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.535	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.212	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.107	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.148	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.255	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.308	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.225	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.497	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.624	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.212	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.382	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.220	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.280	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0619	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0571	1.14	PQL	ng/Kg	
	OCDD	JB	1.53	11.4	PQL	ng/Kg	
	OCDF	JB	0.190	11.4	PQL	ng/Kg	
SL-191-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.31	5.82	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.318	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0708	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.119	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.212	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.177	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.212	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.179	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.213	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.272	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.436	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.170	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.375	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.127	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.105	1.16	PQL	ng/Kg	
	OCDD	JB	9.64	11.6	PQL	ng/Kg	
	OCDF	JB	0.495	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.679	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.406	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.114	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0209	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.106	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0863	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0637	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.113	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.159	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0193	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0400	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.200	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.102	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0131	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0138	1.15	PQL	ng/Kg	
	OCDD	JB	3.14	11.5	PQL	ng/Kg	
	OCDF	JB	0.412	11.5	PQL	ng/Kg	
SL-200-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.461	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.133	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.134	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0640	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.105	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.122	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0923	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.239	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.349	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.110	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.191	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0985	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.157	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0682	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0390	1.11	PQL	ng/Kg	
	OCDD	JB	0.827	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.264	11.1	PQL	ng/Kg	
SL-200-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.532	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.177	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.128	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0774	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.111	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0883	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0999	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.148	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.158	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0794	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0724	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.126	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.124	5.81	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0280	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0182	1.16	PQL	ng/Kg	
	OCDD	JB	1.08	11.6	PQL	ng/Kg	
	OCDF	JB	0.354	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-201-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.490	5.83	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.118	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0781	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0221	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0473	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0871	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0409	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.166	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.231	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0374	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0473	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0637	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0552	5.83	PQL	ng/Kg	
	OCDD	JB	1.15	11.7	PQL	ng/Kg	
	OCDF	JB	0.166	11.7	PQL	ng/Kg	
SL-201-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.431	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.100	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0429	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0401	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0443	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0303	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0509	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0367	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0286	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0257	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0731	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0566	5.81	PQL	ng/Kg	
	OCDD	JB	0.844	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.169	11.6	PQL	ng/Kg	
SL-205-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.362	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0790	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0520	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0338	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.113	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0272	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.349	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.434	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0256	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0979	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0440	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0456	5.69	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0117	1.14	PQL	ng/Kg	
	OCDD	JB	0.856	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.183	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX108 **Laboratory: LL**

EDD Filename: DX108_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-205-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.506	5.79	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.131	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0545	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0298	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0550	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0610	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0469	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0981	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JQ	0.0910	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0580	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0883	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0853	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0982	5.79	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0210	1.16	PQL	ng/Kg	
	OCDD	JB	1.31	11.6	PQL	ng/Kg	
	OCDF	JB	0.246	11.6	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX109

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
7-July-2011	DUP20-SA5DN-QC-070711	6338375	FD	METHOD	1613B	III
7-July-2011	SL-164-SA5DN-SB-9.0-10.0	6338364	N	METHOD	1613B	III
7-July-2011	SL-166-SA5DN-SB-4.0-5.0	6338365	N	METHOD	1613B	III
7-July-2011	SL-166-SA5DN-SB-4.0-5.0MS	6338366	MS	METHOD	1613B	III
7-July-2011	SL-166-SA5DN-SB-4.0-5.0MSD	6338367	MSD	METHOD	1613B	III
7-July-2011	SL-166-SA5DN-SB-9.0-10.0	6338368	N	METHOD	1613B	III
7-July-2011	SL-167-SA5DN-SB-4.0-5.0	6338369	N	METHOD	1613B	III
7-July-2011	SL-167-SA5DN-SB-9.0-10.0	6338370	N	METHOD	1613B	III
7-July-2011	SL-168-SA5DN-SB-4.0-5.0	6338371	N	METHOD	1613B	III
7-July-2011	SL-168-SA5DN-SB-9.0-10.0	6338372	N	METHOD	1613B	III
7-July-2011	SL-164-SA5DN-SB-4.0-5.0	6338363	N	METHOD	1613B	III
7-July-2011	SL-169-SA5DN-SB-7.5-8.5	6338374	N	METHOD	1613B	III
7-July-2011	EB21-SA5DN-SB-070711	6338376	EB	METHOD	1613B	III
7-July-2011	SL-169-SA5DN-SB-4.0-5.0	6338373	N	METHOD	1613B	III
8-July-2011	SL-159-SA5DN-SB-9.0-10.0	6339526	N	METHOD	1613B	III
8-July-2011	SL-155-SA5DN-SB-4.0-5.0	6339517	N	METHOD	1613B	III
8-July-2011	SL-155-SA5DN-SB-9.0-10.0	6339518	N	METHOD	1613B	III
8-July-2011	SL-156-SA5DN-SB-4.0-5.0	6339519	N	METHOD	1613B	III
8-July-2011	SL-156-SA5DN-SB-9.0-10.0	6339520	N	METHOD	1613B	III
8-July-2011	SL-157-SA5DN-SB-4.0-5.0	6339521	N	METHOD	1613B	III
8-July-2011	SL-157-SA5DN-SB-9.0-10.0	6339522	N	METHOD	1613B	III
8-July-2011	SL-158-SA5DN-SB-4.0-5.0	6339523	N	METHOD	1613B	III
8-July-2011	SL-158-SA5DN-SB-9.0-10.0	6339524	N	METHOD	1613B	III
8-July-2011	SL-159-SA5DN-SB-4.0-5.0	6339525	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory:** LL

EDD Filename: DX109_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB21-SA5DN-SB-070711 *Collected:* 7/7/2011 1:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	7.63	JB	0.484	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.41	JB	0.140	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.290	JBQ	0.181	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.583	JBQ	0.183	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.533	JBQ	0.285	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.258	JBQ	0.174	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.526	JBQ	0.300	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.475	JBQ	0.217	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.235	JBQ	0.202	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.505	JBQ	0.175	MDL	10.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.411	JBQ	0.173	MDL	10.2	PQL	pg/L	U	B
OCDD	13.8	JB	0.447	MDL	20.4	PQL	pg/L	U	B
OCDF	1.56	JBQ	0.544	MDL	20.4	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.412	JB	0.0331	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0758	JBQ	0.00746	MDL	5.77	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0217	JBQ	0.0147	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0235	JBQ	0.0126	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0396	JBQ	0.0224	MDL	5.77	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0178	JBQ	0.0105	MDL	5.77	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.114	JBQ	0.0225	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.114	JBQ	0.0146	MDL	5.77	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0496	JQ	0.0262	MDL	5.77	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.0118	U	0.0118	MDL	5.77	PQL	ng/Kg	UJ	FD
2,3,4,6,7,8-HXCDF	0.0362	JBQ	0.0119	MDL	5.77	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0120	U	0.0120	MDL	5.77	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDD	0.0297	U	0.0297	MDL	1.15	PQL	ng/Kg	UJ	FD
OCDD	1.04	JB	0.0210	MDL	11.5	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 Laboratory: LL

EDD Filename: DX109_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP20-SA5DN-QC-070711 *Collected:* 7/7/2011 9:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.121	JBQ	0.0453	MDL	11.5	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-155-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 8:45:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.474	JB	0.0300	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0630	JBQ	0.00699	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0373	JB	0.0151	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0257	JBQ	0.0120	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0683	JBQ	0.0190	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0169	JBQ	0.0102	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0993	JBQ	0.0194	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.101	JB	0.0152	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0314	JBQ	0.0101	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0331	JBQ	0.0118	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0415	JBQ	0.0102	MDL	5.63	PQL	ng/Kg	U	B
OCDD	1.09	JB	0.0222	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.131	JBQ	0.0364	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-155-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.510	JB	0.0333	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0656	JB	0.00755	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0255	JBQ	0.0132	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0265	J	0.0218	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0252	JBQ	0.0151	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0455	JBQ	0.0208	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0315	JBQ	0.0146	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0301	JB	0.0126	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0704	JBQ	0.0121	MDL	5.87	PQL	ng/Kg	U	B
OCDD	2.11	JB	0.0259	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.130	JB	0.0410	MDL	11.7	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 Laboratory: LL

EDD Filename: DX109_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-156-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 1:40:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.561	JB	0.0432	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.112	JB	0.0113	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0332	JQ	0.0286	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.104	JBQ	0.0287	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0585	JBQ	0.0166	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.112	JB	0.0290	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.175	JB	0.0203	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0578	JQ	0.0391	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0703	JBQ	0.0150	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0569	JBQ	0.0176	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0910	JBQ	0.0150	MDL	5.69	PQL	ng/Kg	U	B
OCDD	1.81	JB	0.0290	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.167	JBQ	0.0591	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-156-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 1:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.533	JBQ	0.0351	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0978	JB	0.0129	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0510	JBQ	0.0191	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0720	JQ	0.0251	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0925	JBQ	0.0218	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0741	JBQ	0.0251	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0848	JBQ	0.0188	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.109	JB	0.0240	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0896	JB	0.0191	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.116	JQ	0.0287	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.178	JB	0.0155	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0743	JBQ	0.0149	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.146	JB	0.0151	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0657	JB	0.0396	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0633	JQ	0.0328	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	2.52	JB	0.0325	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.211	JBQ	0.0497	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 Laboratory: LL

EDD Filename: DX109_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-157-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.416	JB	0.0354	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0944	JB	0.00979	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0490	JBQ	0.0188	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0551	J	0.0265	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.109	JB	0.0196	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.128	JBQ	0.0272	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0926	JBQ	0.0167	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.204	JB	0.0277	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.325	JBQ	0.0227	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.167	JQ	0.0347	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.224	JB	0.0164	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0868	JBQ	0.0171	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JBQ	0.0162	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0861	JBQ	0.0391	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0535	JQ	0.0379	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	0.877	JB	0.0269	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.150	JBQ	0.0469	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.394	JB	0.0299	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0835	JB	0.00835	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0657	JBQ	0.0138	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0557	JQ	0.0220	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0636	JBQ	0.0198	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0591	JBQ	0.0215	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0775	JBQ	0.0162	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0809	JBQ	0.0225	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0660	JBQ	0.0168	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0603	JQ	0.0285	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.114	JBQ	0.0133	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0568	JBQ	0.0126	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.120	JB	0.0134	MDL	5.81	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 Laboratory: LL

EDD Filename: DX109_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-157-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	1.12	JB	0.0216	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.160	JB	0.0400	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-158-SA5DN-SB-4.0-5.0 *Collected:* 7/8/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.487	JB	0.0299	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.125	JB	0.00898	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0608	JB	0.0166	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0746	JQ	0.0235	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0870	JB	0.0193	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.141	JB	0.0227	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0886	JB	0.0166	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.200	JB	0.0221	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.362	JB	0.0175	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0788	J	0.0293	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0955	JBQ	0.0137	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0861	JB	0.0159	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0902	JBQ	0.0130	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0510	JB	0.0330	MDL	1.11	PQL	ng/Kg	U	B
OCDD	1.06	JB	0.0268	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.198	JBQ	0.0400	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-158-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.585	JBQ	0.0272	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.107	JB	0.00738	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0317	JB	0.0143	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0233	JQ	0.0217	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0388	JBQ	0.0148	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0317	JBQ	0.0223	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0223	JBQ	0.0122	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0679	JB	0.0208	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0560	JBQ	0.0152	MDL	5.67	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-158-SA5DN-SB-9.0-10.0** ***Collected:*** **7/8/2011 10:05:00** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0303	JQ	0.0265	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0256	JBQ	0.0135	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0477	JBQ	0.0116	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0414	JBQ	0.0130	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0351	JQ	0.0332	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	2.39	JB	0.0209	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.187	JB	0.0406	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: **SL-159-SA5DN-SB-4.0-5.0** ***Collected:*** **7/8/2011 2:55:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.397	JB	0.0277	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0536	JBQ	0.00715	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0178	JBQ	0.0145	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.167	JBQ	0.0235	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0273	JBQ	0.0160	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.243	JBQ	0.0233	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.541	JB	0.0188	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.129	JBQ	0.0140	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0256	JB	0.0135	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0612	JBQ	0.0144	MDL	5.73	PQL	ng/Kg	U	B
OCDD	0.901	JB	0.0225	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.0585	JBQ	0.0474	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: **SL-159-SA5DN-SB-9.0-10.0** ***Collected:*** **7/8/2011 3:00:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.445	JB	0.0261	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0993	JB	0.00955	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0685	JB	0.0231	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0446	JBQ	0.0135	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0392	JBQ	0.0194	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0337	JB	0.0105	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0766	JB	0.0198	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.117	J	0.0176	MDL	5.66	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory:** LL

EDD Filename: DX109_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-159-SA5DN-SB-9.0-10.0 *Collected:* 7/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0266	JBQ	0.0153	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0347	JBQ	0.00783	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0483	JB	0.0121	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0484	JBQ	0.00794	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0348	J	0.0158	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	0.827	JB	0.0281	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.213	JBQ	0.0372	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-164-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.509	JB	0.0349	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.143	JB	0.00866	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0141	JB	0.0141	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0217	JBQ	0.0166	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0500	JBQ	0.0223	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0463	JBQ	0.0143	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0839	JBQ	0.0226	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.120	JBQ	0.0192	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0664	JBQ	0.0156	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0595	JBQ	0.0137	MDL	5.72	PQL	ng/Kg	U	B
OCDD	1.17	JB	0.0239	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.0912	JBQ	0.0378	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.692	JB	0.0325	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.193	JBQ	0.0101	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0326	JBQ	0.0162	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0264	JQ	0.0206	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0494	JBQ	0.0155	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0536	JBQ	0.0204	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0372	JBQ	0.0138	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0596	JB	0.0220	MDL	5.69	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory:** LL

EDD Filename: DX109_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-164-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 8:10:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0239	JBQ	0.0167	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0144	JBQ	0.0138	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0625	JB	0.0157	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0459	JBQ	0.0128	MDL	5.69	PQL	ng/Kg	U	B
OCDD	2.23	JB	0.0221	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.168	JBQ	0.0352	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-166-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 9:35:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.546	JB	0.0346	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.216	JB	0.00922	MDL	5.71	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0360	JBQ	0.0151	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0353	JBQ	0.0184	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0227	U	0.0227	MDL	5.71	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDF	0.0427	JB	0.0162	MDL	5.71	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.107	JB	0.0225	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.202	JB	0.0227	MDL	5.71	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0251	U	0.0251	MDL	5.71	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0301	JBQ	0.0132	MDL	5.71	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0781	JB	0.0172	MDL	5.71	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0580	JBQ	0.0128	MDL	5.71	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0340	JBQ	0.0340	MDL	1.14	PQL	ng/Kg	UJ	B, FD
OCDD	1.20	JB	0.0220	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.207	JBQ	0.0382	MDL	11.4	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.536	JB	0.0361	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.169	JBQ	0.0121	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0605	JBQ	0.0198	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0356	JQ	0.0265	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0837	JBQ	0.0169	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0667	JBQ	0.0254	MDL	5.78	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory:** LL

EDD Filename: DX109_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-166-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0614	JB	0.0157	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0793	JBQ	0.0249	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0771	JBQ	0.0183	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0663	JQ	0.0251	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0341	JB	0.0148	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.103	JB	0.0161	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0890	JBQ	0.0143	MDL	5.78	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0439	JBQ	0.0326	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0302	JQ	0.0271	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	1.47	JBQ	0.0217	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.270	JB	0.0403	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-167-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 10:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.610	JB	0.0389	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.274	JB	0.0115	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0399	JBQ	0.0199	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0792	JBQ	0.0207	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0433	JBQ	0.0265	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0590	JB	0.0185	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0801	JBQ	0.0265	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0799	JB	0.0215	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0249	JBQ	0.0157	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0965	JBQ	0.0189	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0816	JB	0.0152	MDL	5.75	PQL	ng/Kg	U	B
OCDD	1.75	JB	0.0317	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.232	JB	0.0457	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.605	JB	0.0350	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.318	JB	0.0115	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0758	JB	0.0176	MDL	5.79	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory:** LL

EDD Filename: DX109_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-167-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 10:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.127	JQ	0.0282	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.112	JBQ	0.0183	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.118	JB	0.0265	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0976	JB	0.0171	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.124	JBQ	0.0273	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0984	JBQ	0.0213	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.148	J	0.0294	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.163	JB	0.0147	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.100	JBQ	0.0173	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.187	JBQ	0.0144	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0480	JBQ	0.0293	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0425	JQ	0.0273	MDL	1.16	PQL	ng/Kg	J	Z
OCDD	1.84	JB	0.0219	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.219	JBQ	0.0394	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.467	JB	0.0364	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.249	JBQ	0.0124	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.102	JB	0.0222	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.137	JQ	0.0298	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.192	JB	0.0234	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.135	JBQ	0.0286	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.198	JBQ	0.0203	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.126	JBQ	0.0277	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.120	JB	0.0238	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.281	J	0.0348	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.347	JB	0.0176	MDL	5.87	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.154	JB	0.0214	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.284	JBQ	0.0169	MDL	5.87	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0773	JBQ	0.0405	MDL	1.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0335	JQ	0.0328	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	1.27	JB	0.0253	MDL	11.7	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory:** LL

EDD Filename: DX109_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-168-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 1:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.274	JBQ	0.0463	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-168-SA5DN-SB-9.0-10.0 *Collected:* 7/7/2011 1:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.01	JB	0.0349	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.305	JB	0.0114	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0756	JBQ	0.0200	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.103	J	0.0281	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.191	JB	0.0181	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.186	JBQ	0.0279	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.133	JBQ	0.0155	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.128	JB	0.0276	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.125	JB	0.0228	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.215	JQ	0.0256	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.249	JB	0.0155	MDL	5.62	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.176	JBQ	0.0176	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.246	JBQ	0.0146	MDL	5.62	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0570	JBQ	0.0323	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0326	JQ	0.0287	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	8.11	JB	0.0293	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.299	JBQ	0.0359	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-169-SA5DN-SB-4.0-5.0 *Collected:* 7/7/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.545	JB	0.0382	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0984	JBQ	0.00940	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0488	JBQ	0.0192	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0552	JBQ	0.0167	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0642	JBQ	0.0243	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0589	JBQ	0.0148	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0824	JB	0.0252	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0322	JBQ	0.0210	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0892	JQ	0.0296	MDL	5.75	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: **SVOA**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: **SL-169-SA5DN-SB-4.0-5.0** ***Collected:*** **7/7/2011 2:30:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,7,8-PECDF	0.0851	JB	0.0139	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0647	JBQ	0.0165	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0974	JB	0.0139	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0457	JB	0.0375	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0301	JQ	0.0286	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	3.37	JB	0.0295	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.234	JBQ	0.0513	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: **SL-169-SA5DN-SB-7.5-8.5** ***Collected:*** **7/7/2011 2:35:00 PM** ***Analysis Type:*** **RES** ***Dilution:*** **1**

Analyte	*Lab Result*	*Lab Qual*	*DL*	*DL Type*	*RL*	*RL Type*	*Units*	*Data Review Qual*	*Reason Code*
1,2,3,4,6,7,8-HPCDD	0.512	JB	0.0348	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0460	JBQ	0.00810	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0196	JB	0.0154	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0348	JB	0.0135	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0269	JB	0.0222	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0215	JBQ	0.0121	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0445	JBQ	0.0214	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0318	JBQ	0.0164	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0317	JBQ	0.0129	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0214	JBQ	0.0129	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0349	JBQ	0.0125	MDL	5.63	PQL	ng/Kg	U	B
OCDD	1.37	JB	0.0263	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.0888	JB	0.0392	MDL	11.3	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Q	Matrix Spike Upper Rejection
R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX109

Method Blank Outlier Report

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1990B371537	7/21/2011 3:37:00 PM	1,2,3,4,6,7,8-HPCDD	4.77 pg/L	EB21-SA5DN-SB-070711
		1,2,3,4,6,7,8-HPCDF	1.11 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.617 pg/L	
		1,2,3,4,7,8-HxCDD	0.272 pg/L	
		1,2,3,4,7,8-HXCDF	0.447 pg/L	
		1,2,3,6,7,8-HXCDD	0.625 pg/L	
		1,2,3,6,7,8-HXCDF	0.360 pg/L	
		1,2,3,7,8,9-HXCDD	0.898 pg/L	
		1,2,3,7,8,9-HXCDF	0.596 pg/L	
		1,2,3,7,8-PECDD	0.295 pg/L	
		1,2,3,7,8-PECDF	0.321 pg/L	
		2,3,4,6,7,8-HXCDF	0.382 pg/L	
		2,3,4,7,8-PECDF	0.804 pg/L	
		OCDD	9.97 pg/L	
		OCDF	1.09 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB21-SA5DN-SB-070711(RES)	1,2,3,4,6,7,8-HPCDD	7.63 pg/L	7.63U pg/L
EB21-SA5DN-SB-070711(RES)	1,2,3,4,6,7,8-HPCDF	1.41 pg/L	1.41U pg/L
EB21-SA5DN-SB-070711(RES)	1,2,3,4,7,8,9-HPCDF	0.290 pg/L	0.290U pg/L
EB21-SA5DN-SB-070711(RES)	1,2,3,4,7,8-HXCDF	0.583 pg/L	0.583U pg/L
EB21-SA5DN-SB-070711(RES)	1,2,3,6,7,8-HXCDD	0.533 pg/L	0.533U pg/L
EB21-SA5DN-SB-070711(RES)	1,2,3,6,7,8-HXCDF	0.258 pg/L	0.258U pg/L
EB21-SA5DN-SB-070711(RES)	1,2,3,7,8,9-HXCDD	0.526 pg/L	0.526U pg/L
EB21-SA5DN-SB-070711(RES)	1,2,3,7,8,9-HXCDF	0.475 pg/L	0.475U pg/L
EB21-SA5DN-SB-070711(RES)	1,2,3,7,8-PECDF	0.235 pg/L	0.235U pg/L
EB21-SA5DN-SB-070711(RES)	2,3,4,6,7,8-HXCDF	0.505 pg/L	0.505U pg/L
EB21-SA5DN-SB-070711(RES)	2,3,4,7,8-PECDF	0.411 pg/L	0.411U pg/L
EB21-SA5DN-SB-070711(RES)	OCDD	13.8 pg/L	13.8U pg/L
EB21-SA5DN-SB-070711(RES)	OCDF	1.56 pg/L	1.56U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1940B370051	7/15/2011 12:51:00 AM	1,2,3,4,6,7,8-HPCDD	0.412 ng/Kg	SL-159-SA5DN-SB-9.0-10.0
		1,2,3,4,6,7,8-HPCDF	0.341 ng/Kg	
		1,2,3,4,7,8,9-HPCDF	0.120 ng/Kg	
		1,2,3,4,7,8-HxCDD	0.0278 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0977 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0321 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0810 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0698 ng/Kg	
		1,2,3,7,8-PECDD	0.0474 ng/Kg	
		1,2,3,7,8-PECDF	0.0366 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.179 ng/Kg	
		2,3,4,7,8-PECDF	0.104 ng/Kg	
		OCDD	0.823 ng/Kg	
		OCDF	0.418 ng/Kg	

Method Blank Outlier Report

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1990B371952	7/19/2011 7:52:00 PM	1,2,3,4,6,7,8-HPCDD	0.470 ng/Kg	DUP20-SA5DN-QC-070711
		1,2,3,4,6,7,8-HPCDF	0.209 ng/Kg	SL-155-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0716 ng/Kg	SL-155-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0659 ng/Kg	SL-156-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0305 ng/Kg	SL-156-SA5DN-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0477 ng/Kg	SL-157-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0428 ng/Kg	SL-157-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0659 ng/Kg	SL-158-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0333 ng/Kg	SL-158-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0994 ng/Kg	SL-159-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0663 ng/Kg	SL-164-SA5DN-SB-4.0-5.0
		2,3,7,8-TCDD	0.0555 ng/Kg	SL-164-SA5DN-SB-9.0-10.0
		OCDD	0.857 ng/Kg	SL-166-SA5DN-SB-4.0-5.0
		OCDF	0.281 ng/Kg	SL-166-SA5DN-SB-9.0-10.0
				SL-167-SA5DN-SB-4.0-5.0
				SL-167-SA5DN-SB-9.0-10.0
				SL-168-SA5DN-SB-4.0-5.0
				SL-168-SA5DN-SB-9.0-10.0
				SL-169-SA5DN-SB-4.0-5.0
				SL-169-SA5DN-SB-7.5-8.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP20-SA5DN-QC-070711(RES)	1,2,3,4,6,7,8-HPCDD	0.412 ng/Kg	0.412U ng/Kg
DUP20-SA5DN-QC-070711(RES)	1,2,3,4,6,7,8-HPCDF	0.0758 ng/Kg	0.0758U ng/Kg
DUP20-SA5DN-QC-070711(RES)	1,2,3,4,7,8,9-HPCDF	0.0217 ng/Kg	0.0217U ng/Kg
DUP20-SA5DN-QC-070711(RES)	1,2,3,4,7,8-HXCDF	0.0235 ng/Kg	0.0235U ng/Kg
DUP20-SA5DN-QC-070711(RES)	1,2,3,6,7,8-HXCDD	0.0396 ng/Kg	0.0396U ng/Kg
DUP20-SA5DN-QC-070711(RES)	1,2,3,6,7,8-HXCDF	0.0178 ng/Kg	0.0178U ng/Kg
DUP20-SA5DN-QC-070711(RES)	1,2,3,7,8,9-HXCDD	0.114 ng/Kg	0.114U ng/Kg
DUP20-SA5DN-QC-070711(RES)	1,2,3,7,8,9-HXCDF	0.114 ng/Kg	0.114U ng/Kg
DUP20-SA5DN-QC-070711(RES)	2,3,4,6,7,8-HXCDF	0.0362 ng/Kg	0.0362U ng/Kg
DUP20-SA5DN-QC-070711(RES)	OCDD	1.04 ng/Kg	1.04U ng/Kg
DUP20-SA5DN-QC-070711(RES)	OCDF	0.121 ng/Kg	0.121U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.474 ng/Kg	0.474U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0630 ng/Kg	0.0630U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0373 ng/Kg	0.0373U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0683 ng/Kg	0.0683U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0169 ng/Kg	0.0169U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0993 ng/Kg	0.0993U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0314 ng/Kg	0.0314U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0331 ng/Kg	0.0331U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg
SL-155-SA5DN-SB-4.0-5.0(RES)	OCDF	0.131 ng/Kg	0.131U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-155-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.510 ng/Kg	0.510U ng/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0656 ng/Kg	0.0656U ng/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0255 ng/Kg	0.0255U ng/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0252 ng/Kg	0.0252U ng/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0455 ng/Kg	0.0455U ng/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0315 ng/Kg	0.0315U ng/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0704 ng/Kg	0.0704U ng/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	OCDD	2.11 ng/Kg	2.11U ng/Kg
SL-155-SA5DN-SB-9.0-10.0(RES)	OCDF	0.130 ng/Kg	0.130U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.561 ng/Kg	0.561U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.112 ng/Kg	0.112U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.104 ng/Kg	0.104U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0585 ng/Kg	0.0585U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.112 ng/Kg	0.112U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.175 ng/Kg	0.175U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0703 ng/Kg	0.0703U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0910 ng/Kg	0.0910U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	OCDD	1.81 ng/Kg	1.81U ng/Kg
SL-156-SA5DN-SB-4.0-5.0(RES)	OCDF	0.167 ng/Kg	0.167U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.533 ng/Kg	0.533U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0978 ng/Kg	0.0978U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0510 ng/Kg	0.0510U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0925 ng/Kg	0.0925U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0741 ng/Kg	0.0741U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0848 ng/Kg	0.0848U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0896 ng/Kg	0.0896U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0743 ng/Kg	0.0743U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.146 ng/Kg	0.146U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0657 ng/Kg	0.0657U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	OCDD	2.52 ng/Kg	2.52U ng/Kg
SL-156-SA5DN-SB-9.0-10.0(RES)	OCDF	0.211 ng/Kg	0.211U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.416 ng/Kg	0.416U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0944 ng/Kg	0.0944U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0490 ng/Kg	0.0490U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-157-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0926 ng/Kg	0.0926U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.204 ng/Kg	0.204U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.325 ng/Kg	0.325U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0861 ng/Kg	0.0861U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	OCDD	0.877 ng/Kg	0.877U ng/Kg
SL-157-SA5DN-SB-4.0-5.0(RES)	OCDF	0.150 ng/Kg	0.150U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.394 ng/Kg	0.394U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0835 ng/Kg	0.0835U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0657 ng/Kg	0.0657U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0591 ng/Kg	0.0591U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0775 ng/Kg	0.0775U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0809 ng/Kg	0.0809U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0660 ng/Kg	0.0660U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.114 ng/Kg	0.114U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0568 ng/Kg	0.0568U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	OCDD	1.12 ng/Kg	1.12U ng/Kg
SL-157-SA5DN-SB-9.0-10.0(RES)	OCDF	0.160 ng/Kg	0.160U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.487 ng/Kg	0.487U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.125 ng/Kg	0.125U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0608 ng/Kg	0.0608U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0870 ng/Kg	0.0870U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.141 ng/Kg	0.141U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0886 ng/Kg	0.0886U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.200 ng/Kg	0.200U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0955 ng/Kg	0.0955U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0861 ng/Kg	0.0861U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0902 ng/Kg	0.0902U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0510 ng/Kg	0.0510U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	OCDD	1.06 ng/Kg	1.06U ng/Kg
SL-158-SA5DN-SB-4.0-5.0(RES)	OCDF	0.198 ng/Kg	0.198U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.585 ng/Kg	0.585U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-158-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.107 ng/Kg	0.107U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0317 ng/Kg	0.0317U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0388 ng/Kg	0.0388U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0223 ng/Kg	0.0223U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0679 ng/Kg	0.0679U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0560 ng/Kg	0.0560U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0256 ng/Kg	0.0256U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0477 ng/Kg	0.0477U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	OCDD	2.39 ng/Kg	2.39U ng/Kg
SL-158-SA5DN-SB-9.0-10.0(RES)	OCDF	0.187 ng/Kg	0.187U ng/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.397 ng/Kg	0.397U ng/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0536 ng/Kg	0.0536U ng/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0178 ng/Kg	0.0178U ng/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0273 ng/Kg	0.0273U ng/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.129 ng/Kg	0.129U ng/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0256 ng/Kg	0.0256U ng/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0612 ng/Kg	0.0612U ng/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	OCDD	0.901 ng/Kg	0.901U ng/Kg
SL-159-SA5DN-SB-4.0-5.0(RES)	OCDF	0.0585 ng/Kg	0.0585U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.445 ng/Kg	0.445U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0993 ng/Kg	0.0993U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0685 ng/Kg	0.0685U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0446 ng/Kg	0.0446U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0392 ng/Kg	0.0392U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0337 ng/Kg	0.0337U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0766 ng/Kg	0.0766U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0266 ng/Kg	0.0266U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0347 ng/Kg	0.0347U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0483 ng/Kg	0.0483U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0484 ng/Kg	0.0484U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	OCDD	0.827 ng/Kg	0.827U ng/Kg
SL-159-SA5DN-SB-9.0-10.0(RES)	OCDF	0.213 ng/Kg	0.213U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.509 ng/Kg	0.509U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.143 ng/Kg	0.143U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0141 ng/Kg	0.0141U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-164-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0217 ng/Kg	0.0217U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0500 ng/Kg	0.0500U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0839 ng/Kg	0.0839U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0595 ng/Kg	0.0595U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	OCDD	1.17 ng/Kg	1.17U ng/Kg
SL-164-SA5DN-SB-4.0-5.0(RES)	OCDF	0.0912 ng/Kg	0.0912U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.692 ng/Kg	0.692U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.193 ng/Kg	0.193U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0494 ng/Kg	0.0494U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0536 ng/Kg	0.0536U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0372 ng/Kg	0.0372U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0596 ng/Kg	0.0596U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0144 ng/Kg	0.0144U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	OCDD	2.23 ng/Kg	2.23U ng/Kg
SL-164-SA5DN-SB-9.0-10.0(RES)	OCDF	0.168 ng/Kg	0.168U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.546 ng/Kg	0.546U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.216 ng/Kg	0.216U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0360 ng/Kg	0.0360U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0353 ng/Kg	0.0353U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.107 ng/Kg	0.107U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.202 ng/Kg	0.202U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0781 ng/Kg	0.0781U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0340 ng/Kg	0.0340U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	OCDD	1.20 ng/Kg	1.20U ng/Kg
SL-166-SA5DN-SB-4.0-5.0(RES)	OCDF	0.207 ng/Kg	0.207U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.536 ng/Kg	0.536U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.169 ng/Kg	0.169U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-166-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0837 ng/Kg	0.0837U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0667 ng/Kg	0.0667U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0614 ng/Kg	0.0614U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0793 ng/Kg	0.0793U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0771 ng/Kg	0.0771U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0341 ng/Kg	0.0341U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0890 ng/Kg	0.0890U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0439 ng/Kg	0.0439U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	OCDD	1.47 ng/Kg	1.47U ng/Kg
SL-166-SA5DN-SB-9.0-10.0(RES)	OCDF	0.270 ng/Kg	0.270U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.610 ng/Kg	0.610U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.274 ng/Kg	0.274U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0399 ng/Kg	0.0399U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0792 ng/Kg	0.0792U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0433 ng/Kg	0.0433U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0590 ng/Kg	0.0590U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0801 ng/Kg	0.0801U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0799 ng/Kg	0.0799U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0965 ng/Kg	0.0965U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0816 ng/Kg	0.0816U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	OCDD	1.75 ng/Kg	1.75U ng/Kg
SL-167-SA5DN-SB-4.0-5.0(RES)	OCDF	0.232 ng/Kg	0.232U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.605 ng/Kg	0.605U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.318 ng/Kg	0.318U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0758 ng/Kg	0.0758U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.118 ng/Kg	0.118U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0976 ng/Kg	0.0976U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.124 ng/Kg	0.124U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0984 ng/Kg	0.0984U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.100 ng/Kg	0.100U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.187 ng/Kg	0.187U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0480 ng/Kg	0.0480U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-167-SA5DN-SB-9.0-10.0(RES)	OCDD	1.84 ng/Kg	1.84U ng/Kg
SL-167-SA5DN-SB-9.0-10.0(RES)	OCDF	0.219 ng/Kg	0.219U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.467 ng/Kg	0.467U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.249 ng/Kg	0.249U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.192 ng/Kg	0.192U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.135 ng/Kg	0.135U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.198 ng/Kg	0.198U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.126 ng/Kg	0.126U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.154 ng/Kg	0.154U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.284 ng/Kg	0.284U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0773 ng/Kg	0.0773U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	OCDD	1.27 ng/Kg	1.27U ng/Kg
SL-168-SA5DN-SB-4.0-5.0(RES)	OCDF	0.274 ng/Kg	0.274U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.01 ng/Kg	1.01U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.305 ng/Kg	0.305U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0756 ng/Kg	0.0756U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.191 ng/Kg	0.191U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.128 ng/Kg	0.128U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.176 ng/Kg	0.176U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.246 ng/Kg	0.246U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-168-SA5DN-SB-9.0-10.0(RES)	OCDF	0.299 ng/Kg	0.299U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.545 ng/Kg	0.545U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0984 ng/Kg	0.0984U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0488 ng/Kg	0.0488U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0552 ng/Kg	0.0552U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0642 ng/Kg	0.0642U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0589 ng/Kg	0.0589U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0824 ng/Kg	0.0824U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0851 ng/Kg	0.0851U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0647 ng/Kg	0.0647U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0974 ng/Kg	0.0974U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-169-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0457 ng/Kg	0.0457U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	OCDD	3.37 ng/Kg	3.37U ng/Kg
SL-169-SA5DN-SB-4.0-5.0(RES)	OCDF	0.234 ng/Kg	0.234U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.512 ng/Kg	0.512U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	1,2,3,4,7,8-HXCDF	0.0348 ng/Kg	0.0348U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.0269 ng/Kg	0.0269U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.0215 ng/Kg	0.0215U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0445 ng/Kg	0.0445U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.0318 ng/Kg	0.0318U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.0317 ng/Kg	0.0317U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.0214 ng/Kg	0.0214U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0349 ng/Kg	0.0349U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	OCDD	1.37 ng/Kg	1.37U ng/Kg
SL-169-SA5DN-SB-7.5-8.5(RES)	OCDF	0.0888 ng/Kg	0.0888U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
MOISTURE	13.2	14.2	7		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-166-SA5DN-SB-4.0-5.0	DUP20-SA5DN-QC-070711			
1,2,3,4,6,7,8-HPCDD	0.546	0.412	28	50.00	
1,2,3,4,7,8,9-HPCDF	0.0360	0.0217	50	50.00	
1,2,3,4,7,8-HXCDF	0.0353	0.0235	40	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDD	0.107	0.114	6	50.00	
OCDD	1.20	1.04	14	50.00	
1,2,3,4,6,7,8-HPCDF	0.216	0.0758	96	50.00	
1,2,3,6,7,8-HXCDD	5.71 U	0.0396	200	50.00	
1,2,3,6,7,8-HXCDF	0.0427	0.0178	82	50.00	
1,2,3,7,8,9-HXCDF	0.202	0.114	56	50.00	
1,2,3,7,8-PECDD	5.71 U	0.0496	200	50.00	J(all detects)
1,2,3,7,8-PECDF	0.0301	5.77 U	200	50.00	UJ(all non-detects)
2,3,4,6,7,8-HXCDF	0.0781	0.0362	73	50.00	
2,3,4,7,8-PECDF	0.0580	5.77 U	200	50.00	
2,3,7,8-TCDD	0.0340	1.15 U	200	50.00	
OCDF	0.207	0.121	52	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB21-SA5DN-SB-070711	1,2,3,4,6,7,8-HPCDD	JB	7.63	10.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	1.41	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.290	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.583	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.533	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.258	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.526	10.2	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.475	10.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.235	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.505	10.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.411	10.2	PQL	pg/L	
	OCDD	JB	13.8	20.4	PQL	pg/L	
	OCDF	JBQ	1.56	20.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP20-SA5DN-QC-070711	1,2,3,4,6,7,8-HPCDD	JB	0.412	5.77	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0758	5.77	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0217	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0235	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0396	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0178	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.114	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.114	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0496	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0362	5.77	PQL	ng/Kg	
	OCDD	JB	1.04	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.121	11.5	PQL	ng/Kg	
SL-155-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.474	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0630	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0373	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0257	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0683	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0169	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0993	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.101	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0314	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0331	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0415	5.63	PQL	ng/Kg	
	OCDD	JB	1.09	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.131	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.510	5.87	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0656	5.87	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0255	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0265	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0252	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0455	5.87	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0315	5.87	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0301	5.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0704	5.87	PQL	ng/Kg	
	OCDD	JB	2.11	11.7	PQL	ng/Kg	
	OCDF	JB	0.130	11.7	PQL	ng/Kg	
SL-156-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.561	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.112	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0332	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.104	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0585	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.112	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.175	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0578	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0703	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0569	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0910	5.69	PQL	ng/Kg	
	OCDD	JB	1.81	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.167	11.4	PQL	ng/Kg	
SL-156-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.533	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0978	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0510	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0720	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0925	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0741	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0848	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.109	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0896	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.116	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.178	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0743	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.146	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0657	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0633	1.13	PQL	ng/Kg	
	OCDD	JB	2.52	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.211	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-157-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.416	5.64	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0944	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0490	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0551	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.109	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.128	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0926	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.204	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.325	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.167	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.224	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0868	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.170	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0861	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0535	1.13	PQL	ng/Kg	
	OCDD	JB	0.877	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.150	11.3	PQL	ng/Kg	
SL-157-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.394	5.81	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0835	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0657	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0557	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0636	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0591	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0775	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0809	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0660	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0603	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.114	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0568	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.120	5.81	PQL	ng/Kg	
	OCDD	JB	1.12	11.6	PQL	ng/Kg	
	OCDF	JB	0.160	11.6	PQL	ng/Kg	
SL-158-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.487	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.125	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0608	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0746	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0870	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.141	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0886	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.200	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.362	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.0788	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0955	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0861	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0902	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0510	1.11	PQL	ng/Kg	
	OCDD	JB	1.06	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.198	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-158-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.585	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.107	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0317	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0233	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0388	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0317	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0223	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0679	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0560	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0303	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0256	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0477	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0414	5.67	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0351	1.13	PQL	ng/Kg	
	OCDD	JB	2.39	11.3	PQL	ng/Kg	
	OCDF	JB	0.187	11.3	PQL	ng/Kg	
SL-159-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.397	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0536	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0178	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.167	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0273	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.243	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.541	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.129	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0256	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0612	5.73	PQL	ng/Kg	
	OCDD	JB	0.901	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.0585	11.5	PQL	ng/Kg	
SL-159-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.445	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0993	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0685	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0446	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0392	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0337	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0766	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.117	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0266	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0347	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0483	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0484	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0348	1.13	PQL	ng/Kg	
	OCDD	JB	0.827	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.213	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-164-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.509	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.143	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0141	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0217	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0500	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0463	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0839	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.120	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0664	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0595	5.72	PQL	ng/Kg	
	OCDD	JB	1.17	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.0912	11.4	PQL	ng/Kg	
SL-164-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.692	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.193	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0326	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0264	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0494	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0536	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0372	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JB	0.0596	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0239	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0144	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0625	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0459	5.69	PQL	ng/Kg	
	OCDD	JB	2.23	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.168	11.4	PQL	ng/Kg	
SL-166-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.546	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.216	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0360	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0353	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0427	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.107	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.202	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JBQ	0.0301	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0781	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0580	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0340	1.14	PQL	ng/Kg	
	OCDD	JB	1.20	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.207	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.536	5.78	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.169	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0605	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0356	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0837	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0667	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0614	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0793	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0771	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0663	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0341	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.103	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0890	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0439	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0302	1.16	PQL	ng/Kg	
	OCDD	JBQ	1.47	11.6	PQL	ng/Kg	
	OCDF	JB	0.270	11.6	PQL	ng/Kg	
SL-167-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.610	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.274	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0399	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0792	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0433	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0590	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0801	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0799	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0249	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0965	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0816	5.75	PQL	ng/Kg	
	OCDD	JB	1.75	11.5	PQL	ng/Kg	
	OCDF	JB	0.232	11.5	PQL	ng/Kg	
SL-167-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.605	5.79	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.318	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0758	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.127	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.112	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.118	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0976	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.124	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0984	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.148	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.163	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.100	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.187	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0480	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0425	1.16	PQL	ng/Kg	
	OCDD	JB	1.84	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.219	11.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-168-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.467	5.87	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.249	5.87	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.102	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.137	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.192	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.135	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.198	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.126	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.120	5.87	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.281	5.87	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.347	5.87	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.154	5.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.284	5.87	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0773	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0335	1.17	PQL	ng/Kg	
	OCDD	JB	1.27	11.7	PQL	ng/Kg	
	OCDF	JBQ	0.274	11.7	PQL	ng/Kg	
SL-168-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.01	5.62	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.305	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0756	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.103	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.191	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.186	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.133	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.128	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.125	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.215	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.249	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.176	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.246	5.62	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0570	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0326	1.12	PQL	ng/Kg	
	OCDD	JB	8.11	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.299	11.2	PQL	ng/Kg	
SL-169-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.545	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0984	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0488	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0552	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0642	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0589	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0824	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0322	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JQ	0.0892	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0851	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0647	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0974	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0457	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0301	1.15	PQL	ng/Kg	
	OCDD	JB	3.37	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.234	11.5	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX109 **Laboratory: LL**

EDD Filename: DX109_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-169-SA5DN-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JB	0.512	5.63	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0460	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0196	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0348	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0269	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0215	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0445	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0318	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0317	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0214	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0349	5.63	PQL	ng/Kg	
	OCDD	JB	1.37	11.3	PQL	ng/Kg	
	OCDF	JB	0.0888	11.3	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX110

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340984	N	METHOD	1613B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340995	N	METHOD	1613B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340990	N	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340991	N	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340992	MS	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340993	MSD	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	P340991M371013	MSD	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	P340991R370916	MS	METHOD	1613B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340996	FD	METHOD	1613B	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340985	N	METHOD	1613B	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340986	N	METHOD	1613B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340987	N	METHOD	1613B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340994	N	METHOD	1613B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340988	N	METHOD	1613B	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340989	N	METHOD	1613B	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342345	N	METHOD	1613B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342337	N	METHOD	1613B	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342338	N	METHOD	1613B	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342339	N	METHOD	1613B	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342340	N	METHOD	1613B	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342341	N	METHOD	1613B	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342342	N	METHOD	1613B	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342343	N	METHOD	1613B	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342344	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory:** LL

EDD Filename: PrepDX110_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP01-SA6-QC-071111 ***Collected:*** 7/11/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.936	J	0.100	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0 ***Collected:*** 7/11/2011 12:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.458	JB	0.0418	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.177	JBQ	0.0124	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0298	JBQ	0.0264	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0452	JBQ	0.0289	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0268	JBQ	0.0185	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0749	JBQ	0.0289	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0932	JBQ	0.0267	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0542	JBQ	0.0226	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0288	JQ	0.0166	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0516	JB	0.0167	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0432	JBQ	0.0169	MDL	5.75	PQL	ng/Kg	U	B
OCDD	0.987	JBQ	0.0373	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.229	JBQ	0.0754	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-136-SA6-SB-4.0-5.0 ***Collected:*** 7/12/2011 8:25:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.805	JB	0.0948	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.173	JBQ	0.0646	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0745	JBQ	0.0395	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0470	JBQ	0.0322	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0716	JB	0.0399	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0280	JBQ	0.0264	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0672	JBQ	0.0391	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0711	JB	0.0375	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0402	JBQ	0.0276	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0550	JBQ	0.0296	MDL	5.40	PQL	ng/Kg	U	B
OCDD	6.26	JB	0.0952	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.313	JBQ	0.120	MDL	10.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: PrepDX110_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-136-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.681	JB	0.0670	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.165	JBQ	0.0453	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0408	JBQ	0.0293	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0367	JBQ	0.0237	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0359	JB	0.0289	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0419	JB	0.0235	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0646	JBQ	0.0281	MDL	5.40	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0479	JQ	0.0410	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0430	JQ	0.0413	MDL	1.08	PQL	ng/Kg	U	B
OCDD	2.50	JB	0.0934	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.187	JBQ	0.121	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-138-SA6-SB-4.0-5.0 *Collected:* 7/11/2011 3:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.493	JB	0.0482	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.129	JB	0.0141	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0361	JBQ	0.0272	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0321	JBQ	0.0235	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0317	JB	0.0251	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0239	JBQ	0.0198	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0571	JBQ	0.0241	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0529	JBQ	0.0177	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0546	JBQ	0.0193	MDL	5.31	PQL	ng/Kg	U	B
OCDD	1.60	JB	0.0466	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.138	JBQ	0.0932	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-138-SA6-SB-9.0-10.0 *Collected:* 7/11/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.848	JBQ	0.0633	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.272	JB	0.0168	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0574	JBQ	0.0303	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.121	JBQ	0.0329	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.160	JBQ	0.0249	MDL	5.51	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory:** LL

EDD Filename: PrepDX110_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-138-SA6-SB-9.0-10.0 *Collected:* 7/11/2011 3:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.108	JB	0.0341	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0833	JBQ	0.0211	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0675	JBQ	0.0334	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.115	JBQ	0.0290	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.133	JBQ	0.0456	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.176	JQ	0.0221	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.101	JBQ	0.0230	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.191	JB	0.0212	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.113	JQ	0.0475	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	4.73	JB	0.0583	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.447	JBQ	0.0928	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-139-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 9:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.533	JB	0.0585	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.119	JBQ	0.0329	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0511	JBQ	0.0478	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0619	JB	0.0268	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0388	JB	0.0259	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0435	JBQ	0.0261	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0739	JBQ	0.0261	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0410	JB	0.0312	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0602	JBQ	0.0335	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0746	J	0.0229	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0550	JB	0.0259	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.102	JBQ	0.0213	MDL	5.37	PQL	ng/Kg	U	B
OCDD	1.87	JB	0.0932	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.236	JBQ	0.0782	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-139-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.694	JB	0.0588	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.212	JBQ	0.0390	MDL	5.60	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: PrepDX110_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-139-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 9:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0691	JBQ	0.0339	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.102	JBQ	0.0221	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0850	JB	0.0351	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0895	JBQ	0.0212	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0759	JBQ	0.0358	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.119	JBQ	0.0440	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.148	J	0.0238	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0599	JBQ	0.0224	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.130	JBQ	0.0231	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0755	J	0.0334	MDL	1.12	PQL	ng/Kg	U	B
OCDD	2.45	JB	0.0947	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.163	JBQ	0.0798	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-149-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 8:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.807	JBQ	0.0654	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.251	JB	0.0272	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0619	JB	0.0256	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.109	JBQ	0.0385	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0558	JB	0.0215	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.122	JBQ	0.0382	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0982	JBQ	0.0370	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0310	JQ	0.0213	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0801	JBQ	0.0247	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0580	JB	0.0220	MDL	5.44	PQL	ng/Kg	U	B
OCDD	6.19	JB	0.0920	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.518	JBQ	0.118	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.24	JB	0.0714	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.14	JB	0.0884	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.61	JB	0.0773	MDL	5.02	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: PrepDX110_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-149-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	2.65	JB	0.0872	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.993	JB	0.0707	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.87	JB	0.0843	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.434	JBQ	0.0754	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.906	JB	0.0658	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.01	J	0.0680	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.04	JB	0.0614	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.27	JB	0.0626	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.267	J	0.0381	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0 *Collected:* 7/11/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.703	JB	0.0582	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JB	0.0167	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0396	JBQ	0.0355	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0741	JBQ	0.0302	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.188	JB	0.0362	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0407	JBQ	0.0237	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.438	JBQ	0.0370	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.538	JBQ	0.0468	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0889	JBQ	0.0399	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.145	JQ	0.0215	MDL	5.79	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0839	JB	0.0279	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0485	JB	0.0228	MDL	5.79	PQL	ng/Kg	U	B
OCDD	2.11	JB	0.0645	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.264	JB	0.148	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.857	JB	0.0599	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.227	JBQ	0.0162	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0376	JBQ	0.0354	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0465	JBQ	0.0213	MDL	5.57	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory:** LL

EDD Filename: PrepDX110_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-199-SA5DN-SB-9.0-10.0 *Collected:* 7/11/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0397	JBQ	0.0321	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0191	JBQ	0.0187	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0660	JBQ	0.0316	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0345	JQ	0.0211	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0487	JBQ	0.0201	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0579	JBQ	0.0220	MDL	5.57	PQL	ng/Kg	U	B
OCDD	3.74	JB	0.0480	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.271	JBQ	0.0989	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-275-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 11:55:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.608	JB	0.0525	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.117	JB	0.0219	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0798	JBQ	0.0542	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0664	JBQ	0.0173	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0785	JBQ	0.0281	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0364	JBQ	0.0139	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.134	JB	0.0283	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0569	JBQ	0.0240	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0324	JQ	0.0168	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0274	JBQ	0.0162	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0570	JBQ	0.0175	MDL	5.15	PQL	ng/Kg	U	B
OCDD	2.02	JB	0.0832	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.224	JBQ	0.0829	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-275-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.555	JB	0.0452	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.128	JBQ	0.0172	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0396	JBQ	0.0125	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0337	JBQ	0.0257	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0280	JBQ	0.0251	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0257	JBQ	0.0164	MDL	5.45	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory:** LL

EDD Filename: PrepDX110_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-275-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 12:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0393	JBQ	0.0117	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0387	JBQ	0.0163	MDL	5.45	PQL	ng/Kg	U	B
OCDD	2.71	JBQ	0.0624	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.152	JBQ	0.0759	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.965	JC	0.0894	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-276-SA6-SB-4.0-5.0 *Collected:* 7/12/2011 2:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.21	JB	0.111	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.529	JBQ	0.0784	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.46	JB	0.102	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.90	JB	0.0796	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.05	JB	0.101	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.17	JB	0.0766	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.232	JBQ	0.120	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.230	JBQ	0.0587	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.756	JB	0.0986	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.81	JB	0.107	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0400	JQ	0.0313	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.423	JB	0.0407	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0993	JB	0.0144	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0357	JBQ	0.0165	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0291	JBQ	0.0137	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0427	JBQ	0.0154	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0541	JBQ	0.0174	MDL	5.41	PQL	ng/Kg	U	B
OCDD	1.24	JB	0.0631	MDL	10.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: PrepDX110_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-276-SA6-SB-9.0-10.0 *Collected:* 7/12/2011 2:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.150	JB	0.0822	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-289-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 3:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.92	JB	0.0539	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.300	JBQ	0.0207	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0421	JBQ	0.0149	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0740	JBQ	0.0263	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0267	JBQ	0.0129	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0738	JB	0.0268	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0209	JBQ	0.0196	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0282	JQ	0.0161	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0410	JBQ	0.0143	MDL	4.94	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0424	JBQ	0.0170	MDL	4.94	PQL	ng/Kg	U	B
OCDF	0.493	JB	0.0861	MDL	9.88	PQL	ng/Kg	U	B

Sample ID: SL-292-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 12:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.67	JB	0.181	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.52	JB	0.122	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.55	JB	0.113	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.86	JB	0.122	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.02	JB	0.130	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.04	JB	0.184	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.99	J	0.126	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.32	JB	0.107	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.57	JB	0.117	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.643	JQ	0.0925	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2850	EB	0.535	MDL	5.04	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: PrepDX110_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-297-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 9:42:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.939	JQ	0.0911	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	56700	EB	1.02	MDL	10.1	PQL	ng/Kg	J	*XI

Sample ID: SL-298-SA6-SS-0.0-0.5 *Collected:* 7/11/2011 8:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5730	EB	1.09	MDL	5.02	PQL	ng/Kg	J	*XI
OCDD	97400	EB	1.61	MDL	10.0	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-008-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: PrepDX110_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: PrepDX110_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: PrepDX110_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX110

Method Blank Outlier Report

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: DX110_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2030B371855	7/25/2011 6:55:00 PM	1,2,3,4,6,7,8-HPCDD	0.487 ng/Kg	DUP01-SA6-QC-071111
		1,2,3,4,6,7,8-HPCDF	0.198 ng/Kg	SL-135-SA6-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0894 ng/Kg	SL-136-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0284 ng/Kg	SL-136-SA6-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0788 ng/Kg	SL-138-SA6-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0466 ng/Kg	SL-138-SA6-SB-9.0-10.0
		1,2,3,6,7,8-HXCDF	0.0517 ng/Kg	SL-139-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0580 ng/Kg	SL-139-SA6-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0495 ng/Kg	SL-149-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0396 ng/Kg	SL-149-SA6-SS-0.0-0.5
		2,3,4,6,7,8-HXCDF	0.0900 ng/Kg	SL-199-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0844 ng/Kg	SL-199-SA5DN-SB-9.0-10.0
		OCDD	0.904 ng/Kg	SL-275-SA6-SB-4.0-5.0
		OCDF	0.314 ng/Kg	SL-275-SA6-SB-9.0-10.0
				SL-276-SA6-SB-4.0-5.0
				SL-276-SA6-SB-9.0-10.0
				SL-289-SA6-SS-0.0-0.5
				SL-292-SA6-SS-0.0-0.5
				SL-297-SA6-SS-0.0-0.5
				SL-298-SA6-SS-0.0-0.5
BLK2030B372235	7/27/2011 10:35:00 PM	2,3,7,8-TCDF	0.0224 ng/Kg	DUP01-SA6-QC-071111
				SL-135-SA6-SB-4.0-5.0
				SL-136-SA6-SB-4.0-5.0
				SL-136-SA6-SB-9.0-10.0
				SL-138-SA6-SB-4.0-5.0
				SL-138-SA6-SB-9.0-10.0
				SL-139-SA6-SB-4.0-5.0
				SL-139-SA6-SB-9.0-10.0
				SL-149-SA5DN-SB-4.0-5.0
				SL-149-SA6-SS-0.0-0.5
				SL-199-SA5DN-SB-4.0-5.0
				SL-199-SA5DN-SB-9.0-10.0
				SL-275-SA6-SB-4.0-5.0
				SL-275-SA6-SB-9.0-10.0
				SL-276-SA6-SB-4.0-5.0
				SL-276-SA6-SB-9.0-10.0
				SL-289-SA6-SS-0.0-0.5
				SL-292-SA6-SS-0.0-0.5
				SL-297-SA6-SS-0.0-0.5
				SL-298-SA6-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.458 ng/Kg	0.458U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.177 ng/Kg	0.177U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0932 ng/Kg	0.0932U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0516 ng/Kg	0.0516U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0432 ng/Kg	0.0432U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	OCDD	0.987 ng/Kg	0.987U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	OCDF	0.229 ng/Kg	0.229U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.805 ng/Kg	0.805U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.173 ng/Kg	0.173U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX110 | Laboratory: LL

EDD Filename: DX110_v1. | eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0745 ng/Kg	0.0745U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0716 ng/Kg	0.0716U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0280 ng/Kg	0.0280U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0672 ng/Kg	0.0672U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0711 ng/Kg	0.0711U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0402 ng/Kg	0.0402U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	OCDF	0.313 ng/Kg	0.313U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.681 ng/Kg	0.681U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0408 ng/Kg	0.0408U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0367 ng/Kg	0.0367U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0359 ng/Kg	0.0359U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0646 ng/Kg	0.0646U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	OCDD	2.50 ng/Kg	2.50U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	OCDF	0.187 ng/Kg	0.187U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.493 ng/Kg	0.493U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0571 ng/Kg	0.0571U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	OCDD	1.60 ng/Kg	1.60U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	OCDF	0.138 ng/Kg	0.138U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.848 ng/Kg	0.848U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.272 ng/Kg	0.272U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0574 ng/Kg	0.0574U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.121 ng/Kg	0.121U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0675 ng/Kg	0.0675U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.133 ng/Kg	0.133U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-138-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.191 ng/Kg	0.191U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	OCDF	0.447 ng/Kg	0.447U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.533 ng/Kg	0.533U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.119 ng/Kg	0.119U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0388 ng/Kg	0.0388U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0435 ng/Kg	0.0435U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0739 ng/Kg	0.0739U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0410 ng/Kg	0.0410U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0602 ng/Kg	0.0602U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	OCDD	1.87 ng/Kg	1.87U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	OCDF	0.236 ng/Kg	0.236U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.694 ng/Kg	0.694U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.212 ng/Kg	0.212U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0691 ng/Kg	0.0691U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0850 ng/Kg	0.0850U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0895 ng/Kg	0.0895U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0759 ng/Kg	0.0759U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.119 ng/Kg	0.119U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0599 ng/Kg	0.0599U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.130 ng/Kg	0.130U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0755 ng/Kg	0.0755U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	OCDD	2.45 ng/Kg	2.45U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	OCDF	0.163 ng/Kg	0.163U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.807 ng/Kg	0.807U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.251 ng/Kg	0.251U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0558 ng/Kg	0.0558U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0982 ng/Kg	0.0982U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0801 ng/Kg	0.0801U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	OCDF	0.518 ng/Kg	0.518U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.703 ng/Kg	0.703U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0396 ng/Kg	0.0396U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0741 ng/Kg	0.0741U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.188 ng/Kg	0.188U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0407 ng/Kg	0.0407U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0889 ng/Kg	0.0889U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	OCDD	2.11 ng/Kg	2.11U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	OCDF	0.264 ng/Kg	0.264U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.857 ng/Kg	0.857U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.227 ng/Kg	0.227U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0376 ng/Kg	0.0376U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0191 ng/Kg	0.0191U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0660 ng/Kg	0.0660U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0579 ng/Kg	0.0579U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	OCDD	3.74 ng/Kg	3.74U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	OCDF	0.271 ng/Kg	0.271U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.608 ng/Kg	0.608U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.117 ng/Kg	0.117U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0798 ng/Kg	0.0798U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0785 ng/Kg	0.0785U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0364 ng/Kg	0.0364U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.134 ng/Kg	0.134U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0274 ng/Kg	0.0274U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0570 ng/Kg	0.0570U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	OCDD	2.02 ng/Kg	2.02U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	OCDF	0.224 ng/Kg	0.224U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.555 ng/Kg	0.555U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.128 ng/Kg	0.128U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0396 ng/Kg	0.0396U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0337 ng/Kg	0.0337U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0280 ng/Kg	0.0280U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0393 ng/Kg	0.0393U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-275-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0387 ng/Kg	0.0387U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	OCDD	2.71 ng/Kg	2.71U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	OCDF	0.152 ng/Kg	0.152U ng/Kg
SL-276-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.232 ng/Kg	0.232U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.423 ng/Kg	0.423U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0993 ng/Kg	0.0993U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0357 ng/Kg	0.0357U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0291 ng/Kg	0.0291U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	OCDD	1.24 ng/Kg	1.24U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	OCDF	0.150 ng/Kg	0.150U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	1.92 ng/Kg	1.92U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.300 ng/Kg	0.300U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.0740 ng/Kg	0.0740U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.0738 ng/Kg	0.0738U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0209 ng/Kg	0.0209U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0410 ng/Kg	0.0410U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0424 ng/Kg	0.0424U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	OCDF	0.493 ng/Kg	0.493U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

***Method:* 1613B**
***Matrix:* SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	OCDD	-489	-572	40.00-135.00	-	OCDD	No Qual, >4x
SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDD	-	35	40.00-135.00	-	1,2,3,4,6,7,8-HPCDD	No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX110 Laboratory: LL

EDD Filename: DX110_v1. eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
MOISTURE	0.85	0.80	6		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
1,2,3,4,6,7,8-HPCDD	2850	3330	16	50.00	
1,2,3,4,6,7,8-HPCDF	354	419	17	50.00	
1,2,3,4,7,8,9-HPCDF	41.6	49.0	16	50.00	
1,2,3,4,7,8-HxCDD	12.0	14.0	15	50.00	
1,2,3,4,7,8-HXCDF	30.7	33.5	9	50.00	
1,2,3,6,7,8-HXCDD	70.9	84.3	17	50.00	
1,2,3,6,7,8-HXCDF	17.7	20.7	16	50.00	
1,2,3,7,8,9-HXCDD	27.6	31.9	14	50.00	
1,2,3,7,8,9-HXCDF	5.90	6.47	9	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	7.47	6.57	13	50.00	
1,2,3,7,8-PECDF	33.6	51.0	41	50.00	
2,3,4,6,7,8-HXCDF	31.1	37.9	20	50.00	
2,3,4,7,8-PECDF	28.7	34.2	17	50.00	
2,3,7,8-TCDD	0.939	0.936	0	50.00	
2,3,7,8-TCDF	11.8	11.5	3	50.00	
OCDD	56700	66100	15	50.00	
OCDF	736	848	14	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	2,3,7,8-TCDD	J	0.936	1.01	PQL	ng/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.458	5.75	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.177	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0298	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0452	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0268	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0749	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0932	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0542	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0288	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0516	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0432	5.75	PQL	ng/Kg	
	OCDD	JBQ	0.987	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.229	11.5	PQL	ng/Kg	
SL-136-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.805	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.173	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0745	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0470	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0716	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0280	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0672	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0711	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0402	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0550	5.40	PQL	ng/Kg	
	OCDD	JB	6.26	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.313	10.8	PQL	ng/Kg	
SL-136-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.681	5.40	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.165	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0408	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0367	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0359	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0419	5.40	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JBQ	0.0646	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0479	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0430	1.08	PQL	ng/Kg	
	OCDD	JB	2.50	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.187	10.8	PQL	ng/Kg	
SL-138-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.493	5.31	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.129	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0361	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0321	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0317	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0239	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0571	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0529	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0546	5.31	PQL	ng/Kg	
	OCDD	JB	1.60	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.138	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-138-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.848	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.272	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0574	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.121	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.160	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.108	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0833	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0675	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.115	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.133	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.176	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.101	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.191	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.113	1.10	PQL	ng/Kg	
	OCDD	JB	4.73	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.447	11.0	PQL	ng/Kg	
SL-139-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.533	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.119	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0511	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0619	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0388	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0435	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0739	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0410	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0602	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.0746	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0550	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.102	5.37	PQL	ng/Kg	
	OCDD	JB	1.87	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.236	10.7	PQL	ng/Kg	
SL-139-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.694	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.212	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0691	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.102	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0850	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0895	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0759	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.119	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.148	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0599	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.130	5.60	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0755	1.12	PQL	ng/Kg	
	OCDD	JB	2.45	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.163	11.2	PQL	ng/Kg	
SL-149-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.807	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.251	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0619	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.109	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0558	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.122	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0982	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0310	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0801	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0580	5.44	PQL	ng/Kg	
	OCDD	JB	6.19	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.518	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-149-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.24	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.14	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.61	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.65	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.993	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.87	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.434	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.906	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.01	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.04	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.27	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.267	1.00	PQL	ng/Kg	
SL-199-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.703	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.195	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0396	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0741	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.188	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0407	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.438	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.538	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0889	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.145	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0839	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0485	5.79	PQL	ng/Kg	
	OCDD	JB	2.11	11.6	PQL	ng/Kg	
	OCDF	JB	0.264	11.6	PQL	ng/Kg	
SL-199-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.857	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.227	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0376	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0465	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0397	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0191	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0660	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0345	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0487	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0579	5.57	PQL	ng/Kg	
	OCDD	JB	3.74	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.271	11.1	PQL	ng/Kg	
SL-275-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.608	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.117	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0798	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0664	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0785	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0364	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.134	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0569	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0324	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0274	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0570	5.15	PQL	ng/Kg	
	OCDD	JB	2.02	10.3	PQL	ng/Kg	
	OCDF	JBQ	0.224	10.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX110 **Laboratory: LL**

EDD Filename: DX110_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-275-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.555	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.128	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0396	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0337	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0280	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0257	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0393	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0387	5.45	PQL	ng/Kg	
	OCDD	JBQ	2.71	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.152	10.9	PQL	ng/Kg	
SL-276-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.21	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.529	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.46	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.90	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.05	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.17	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.232	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.230	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.756	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.81	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0400	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.965	1.08	PQL	ng/Kg	
SL-276-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.423	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0993	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0357	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0291	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0427	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0541	5.41	PQL	ng/Kg	
	OCDD	JB	1.24	10.8	PQL	ng/Kg	
	OCDF	JB	0.150	10.8	PQL	ng/Kg	
SL-289-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.92	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.300	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0421	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0740	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0267	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0738	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0209	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0282	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0410	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0424	4.94	PQL	ng/Kg	
	OCDF	JB	0.493	9.88	PQL	ng/Kg	
SL-292-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.67	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.52	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.55	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.86	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.02	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.04	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	3.99	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.32	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.57	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.643	1.00	PQL	ng/Kg	
SL-297-SA6-SS-0.0-0.5	2,3,7,8-TCDD	JQ	0.939	1.01	PQL	ng/Kg	J (all detects)

SAMPLE DELIVERY GROUP

DX120

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356798	N	METHOD	1613B	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356799	N	METHOD	1613B	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356800	N	METHOD	1613B	III
26-Jul-2011	EB-SA6-SS-072611	6356801	EB	METHOD	1613B	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356802	N	METHOD	1613B	III
26-Jul-2011	DUP08-SA6-QC-072611	6356797	FD	METHOD	1613B	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358402	N	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358398	N	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358399	MS	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358400	MSD	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	P358398M371933	MSD	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	P358398R371837	MS	METHOD	1613B	III
27-Jul-2011	DUP09-SA6-QC-072711	6358403	FD	METHOD	1613B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358404	N	METHOD	1613B	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358405	N	METHOD	1613B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358401	N	METHOD	1613B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358407	N	METHOD	1613B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358408	N	METHOD	1613B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358406	N	METHOD	1613B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358409	N	METHOD	1613B	III
27-Jul-2011	EB-SA6-SB-072711	6358412	EB	METHOD	1613B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358410	N	METHOD	1613B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358411	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory:** LL

EDD Filename: DX120_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA6-SB-072711 **Collected:** 7/27/2011 1:00:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.95	JB	0.566	MDL	9.80	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.567	JBQ	0.215	MDL	9.80	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.369	JBQ	0.346	MDL	9.80	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.225	JBQ	0.210	MDL	9.80	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.334	JBQ	0.216	MDL	9.80	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.679	JBQ	0.360	MDL	9.80	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.463	JB	0.213	MDL	9.80	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.377	JQ	0.292	MDL	9.80	PQL	pg/L	J	Z
2,3,4,7,8-PECDF	0.611	JBQ	0.254	MDL	9.80	PQL	pg/L	U	B
2,3,7,8-TCDF	0.571	JQ	0.534	MDL	1.96	PQL	pg/L	J	Z
OCDD	5.10	JBQ	0.418	MDL	19.6	PQL	pg/L	U	B
OCDF	0.922	JB	0.542	MDL	19.6	PQL	pg/L	U	B

Sample ID: EB-SA6-SS-072611 **Collected:** 7/26/2011 11:30:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.71	JBQ	0.646	MDL	9.94	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.69	JB	0.317	MDL	9.94	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.449	JBQ	0.335	MDL	9.94	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.484	JB	0.423	MDL	9.94	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.392	JBQ	0.308	MDL	9.94	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.576	JBQ	0.428	MDL	9.94	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	1.09	JBQ	0.319	MDL	9.94	PQL	pg/L	U	B
1,2,3,7,8-PECDF	1.65	JQ	0.373	MDL	9.94	PQL	pg/L	J	Z
2,3,4,6,7,8-HXCDF	0.368	JBQ	0.287	MDL	9.94	PQL	pg/L	U	B
2,3,4,7,8-PECDF	1.95	JBQ	0.334	MDL	9.94	PQL	pg/L	U	B
OCDD	7.99	JB	0.446	MDL	19.9	PQL	pg/L	U	B
OCDF	1.26	JBQ	0.727	MDL	19.9	PQL	pg/L	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory:** LL

EDD Filename: DX120_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP08-SA6-QC-072611 ***Collected:*** 7/26/2011 12:14:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.49	JB	0.0474	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.737	JB	0.0239	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.66	JB	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.69	JB	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.822	JBQ	0.0427	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.363	JB	0.0350	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.80	JB	0.0371	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0680	JB	0.0193	MDL	1.02	PQL	ng/Kg	U	B

Sample ID: DUP09-SA6-QC-072711 ***Collected:*** 7/27/2011 8:28:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.92	JB	0.0370	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.50	JB	0.0298	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.79	JB	0.0383	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.63	JB	0.0283	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.819	JB	0.0345	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.24	JB	0.0421	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.90	JB	0.0482	MDL	4.93	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	2.84	JB	0.0318	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	1.32	B	0.0202	MDL	0.986	PQL	ng/Kg	J	FD

Sample ID: SL-009-SA6-SS-0.0-0.5 ***Collected:*** 7/27/2011 8:20:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.83	JB	0.0305	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.58	JB	0.0282	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.33	JB	0.0351	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.42	JB	0.0267	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.876	JB	0.0345	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.32	JB	0.0449	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	10.3	B	0.0513	MDL	5.08	PQL	ng/Kg	J	FD
2,3,4,6,7,8-HXCDF	3.16	JB	0.0326	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	6.67	B	0.0211	MDL	1.02	PQL	ng/Kg	J	FD
OCDF	80.5	B	0.0230	MDL	10.2	PQL	ng/Kg	J	Q, Q

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-017-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 9:14:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.75	JB	0.0824	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	4.18	JB	0.0557	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.17	JB	0.0596	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.18	JB	0.0588	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.36	JB	0.0388	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.326	JB	0.0244	MDL	1.00	PQL	ng/Kg	J	Z
OCDD	21800	EB	0.188	MDL	10.0	PQL	ng/Kg	J	*XI

Sample ID: SL-028-SA6-SS-0.0-0.5 *Collected:* 7/27/2011 7:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.52	JB	0.0345	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.77	JB	0.0342	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.81	JB	0.0319	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.964	JB	0.0519	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.49	JB	0.0602	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.02	JB	0.0450	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.302	JB	0.0197	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-069-SA6-SB-4.0-5.0 *Collected:* 7/27/2011 8:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.401	JB	0.0121	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.124	JBQ	0.0248	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0266	JB	0.0154	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.104	JBQ	0.0163	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.120	JB	0.0158	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0597	JB	0.0130	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.107	JB	0.0154	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0782	JB	0.0168	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0351	JBQ	0.0119	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0526	JBQ	0.0121	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0733	JB	0.0136	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.106	JBQ	0.0124	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0117	JBQ	0.0105	MDL	1.04	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory:** LL

EDD Filename: DX120_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-069-SA6-SB-4.0-5.0 **Collected:** 7/27/2011 8:35:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0257	JBQ	0.0147	MDL	1.04	PQL	ng/Kg	U	B
OCDF	0.991	JB	0.0310	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-069-SA6-SB-9.0-10.0 **Collected:** 7/27/2011 8:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.37	JB	0.0191	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.150	JBQ	0.00885	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0618	JB	0.0161	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0355	JBQ	0.0136	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.358	JB	0.0178	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0808	JB	0.0145	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0515	JBQ	0.0146	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.143	JB	0.0126	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.164	JBQ	0.0171	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0451	JBQ	0.0131	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.140	JB	0.0156	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0593	JB	0.0125	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.261	JBQ	0.0164	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0825	JB	0.0313	MDL	1.10	PQL	ng/Kg	U	B
OCDD	10.5	JB	0.0240	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.396	JB	0.0255	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-076-SA6-SB-2.0-3.0 **Collected:** 7/27/2011 11:05:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.473	JB	0.0199	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0433	JBQ	0.00542	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0620	JBQ	0.0125	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0199	JBQ	0.0146	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0227	JBQ	0.0119	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0393	JBQ	0.0154	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0311	JB	0.00975	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0689	JBQ	0.0148	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0310	JBQ	0.0160	MDL	5.41	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory:** LL

EDD Filename: DX120_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-076-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 11:05:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0268	JBQ	0.00769	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0152	JBQ	0.0102	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0478	JBQ	0.00823	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0638	JB	0.0180	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0129	JBQ	0.0116	MDL	1.08	PQL	ng/Kg	U	B
OCDD	0.974	JB	0.0217	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.135	JBQ	0.0341	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-077-SA6-SB-4.0-5.0 ***Collected:*** 7/26/2011 9:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.83	JB	0.0336	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.326	JB	0.0484	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.102	JBQ	0.0283	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.174	JBQ	0.0246	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.518	JB	0.0294	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JBQ	0.0239	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.220	JB	0.0284	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0880	JB	0.0279	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0581	JB	0.0166	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.655	JB	0.0156	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.204	JBQ	0.0244	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.282	JB	0.0150	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0208	JB	0.0141	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0649	JB	0.0221	MDL	1.08	PQL	ng/Kg	U	B
OCDF	5.93	JB	0.0586	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-077-SA6-SB-9.0-10.0 ***Collected:*** 7/26/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.48	JB	0.0236	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.238	JB	0.0226	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.19	JB	0.0226	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.931	JB	0.0235	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.944	JB	0.0205	MDL	5.73	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: **GENCHEM**

Method: **1613B** ***Matrix:*** **SO**

Sample ID: SL-077-SA6-SB-9.0-10.0 ***Collected:*** 7/26/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.421	JBQ	0.0238	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.806	JB	0.0254	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.231	JBQ	0.0178	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.926	JB	0.0223	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.13	JB	0.0212	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.24	JB	0.0213	MDL	5.73	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0576	JBQ	0.0121	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.481	JB	0.0397	MDL	1.15	PQL	ng/Kg	J	Z

Sample ID: SL-080-SA6-SB-3.5-4.5 ***Collected:*** 7/26/2011 10:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.435	JB	0.0136	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0648	JBQ	0.00775	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0331	JBQ	0.0133	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0177	JBQ	0.00984	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0497	JB	0.0135	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0438	JBQ	0.0103	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0325	JBQ	0.0114	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0446	JBQ	0.0102	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0502	JBQ	0.0145	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0156	JBQ	0.0112	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0287	JB	0.0114	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0566	JBQ	0.0124	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0625	JBQ	0.0110	MDL	5.19	PQL	ng/Kg	U	B
OCDD	1.08	JB	0.0138	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.172	JB	0.0185	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.27	JB	0.0103	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.189	JB	0.0169	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0727	JBQ	0.0159	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.212	JBQ	0.0147	MDL	5.40	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory:** LL

EDD Filename: DX120_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-089-SA6-SB-4.0-5.0 ***Collected:*** 7/27/2011 9:50:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.370	JB	0.0162	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.119	JB	0.0132	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.176	JB	0.0159	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0618	JBQ	0.0163	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0484	JB	0.0134	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.497	JB	0.0140	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.151	JB	0.0134	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.429	JB	0.0135	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0209	JBQ	0.00989	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.205	JB	0.0245	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	2.80	JB	0.0201	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0 ***Collected:*** 7/27/2011 10:00:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.44	JB	0.0153	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.473	JB	0.0214	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.346	JB	0.0224	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.396	JB	0.0177	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.26	JB	0.0228	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.216	JB	0.0153	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.570	JB	0.0229	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JBQ	0.0169	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.385	JB	0.0171	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.111	JB	0.0127	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.323	JB	0.0141	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.357	JB	0.0124	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0567	JBQ	0.0101	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.204	JB	0.0189	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0 ***Collected:*** 7/27/2011 12:15:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.484	JB	0.0137	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.136	JB	0.00699	MDL	5.14	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-117-SA6-SB-2.0-3.0 *Collected:* 7/27/2011 12:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0624	JB	0.0154	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0452	JBQ	0.00960	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0963	JBQ	0.00960	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0527	JB	0.0100	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0715	JB	0.00762	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0756	JB	0.00929	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0586	JBQ	0.0100	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0959	JBQ	0.00971	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.102	JB	0.00605	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0610	JB	0.00835	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.131	JB	0.00605	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0404	JB	0.00939	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0225	JBQ	0.00856	MDL	1.03	PQL	ng/Kg	U	B
OCDD	2.07	JB	0.0143	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.349	JB	0.0195	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-179-SA5DN-SB-4.0-5.0 *Collected:* 7/27/2011 2:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.33	JB	0.0382	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.90	JB	0.0547	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.982	JB	0.0282	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.11	JB	0.0255	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.11	JB	0.0528	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.328	JB	0.0335	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.713	JB	0.0352	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.638	JB	0.0158	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.80	JB	0.0273	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.626	JB	0.0159	MDL	5.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0859	JB	0.0140	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.126	JB	0.0284	MDL	1.03	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-179-SA5DN-SB-9.0-10.0 *Collected:* 7/27/2011 2:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.852	JB	0.00889	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.111	JBQ	0.0168	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0800	JB	0.0200	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0747	JB	0.0122	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.311	JB	0.0201	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0642	JB	0.0103	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.145	JB	0.0205	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0285	JB	0.0130	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0536	JB	0.0137	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0467	JB	0.00730	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0903	JB	0.0107	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0887	JBQ	0.00718	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0116	JBQ	0.0105	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0278	JBQ	0.0131	MDL	1.10	PQL	ng/Kg	U	B
OCDF	1.98	JB	0.0200	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-311-SA6-SS-0.0-0.5 *Collected:* 7/26/2011 11:31:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.49	JB	0.0259	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.63	JB	0.0225	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.48	JB	0.0223	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.06	JB	0.0373	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.151	JB	0.0228	MDL	1.01	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX120

Method Blank Outlier Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2340B371734	8/23/2011 5:34:00 PM	1,2,3,4,6,7,8-HPCDD	2.80 pg/L	EB-SA6-SB-072711
		1,2,3,4,6,7,8-HPCDF	0.632 pg/L	EB-SA6-SS-072611
		1,2,3,4,7,8,9-HPCDF	0.512 pg/L	
		1,2,3,4,7,8-HxCDD	0.765 pg/L	
		1,2,3,4,7,8-HXCDF	0.547 pg/L	
		1,2,3,6,7,8-HXCDD	0.856 pg/L	
		1,2,3,6,7,8-HXCDF	0.489 pg/L	
		1,2,3,7,8,9-HXCDD	0.876 pg/L	
		1,2,3,7,8,9-HXCDF	0.588 pg/L	
		1,2,3,7,8-PECDD	0.858 pg/L	
		2,3,4,6,7,8-HXCDF	0.562 pg/L	
		2,3,4,7,8-PECDF	1.02 pg/L	
		OCDD	6.56 pg/L	
		OCDF	2.84 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-072711(RES)	1,2,3,4,6,7,8-HPCDD	2.95 pg/L	2.95U pg/L
EB-SA6-SB-072711(RES)	1,2,3,4,6,7,8-HPCDF	0.567 pg/L	0.567U pg/L
EB-SA6-SB-072711(RES)	1,2,3,4,7,8-HxCDD	0.369 pg/L	0.369U pg/L
EB-SA6-SB-072711(RES)	1,2,3,4,7,8-HXCDF	0.225 pg/L	0.225U pg/L
EB-SA6-SB-072711(RES)	1,2,3,6,7,8-HXCDF	0.334 pg/L	0.334U pg/L
EB-SA6-SB-072711(RES)	1,2,3,7,8,9-HXCDD	0.679 pg/L	0.679U pg/L
EB-SA6-SB-072711(RES)	1,2,3,7,8,9-HXCDF	0.463 pg/L	0.463U pg/L
EB-SA6-SB-072711(RES)	2,3,4,7,8-PECDF	0.611 pg/L	0.611U pg/L
EB-SA6-SB-072711(RES)	OCDD	5.10 pg/L	5.10U pg/L
EB-SA6-SB-072711(RES)	OCDF	0.922 pg/L	0.922U pg/L
EB-SA6-SS-072611(RES)	1,2,3,4,6,7,8-HPCDD	3.71 pg/L	3.71U pg/L
EB-SA6-SS-072611(RES)	1,2,3,4,6,7,8-HPCDF	1.69 pg/L	1.69U pg/L
EB-SA6-SS-072611(RES)	1,2,3,4,7,8,9-HPCDF	0.449 pg/L	0.449U pg/L
EB-SA6-SS-072611(RES)	1,2,3,6,7,8-HXCDD	0.484 pg/L	0.484U pg/L
EB-SA6-SS-072611(RES)	1,2,3,6,7,8-HXCDF	0.392 pg/L	0.392U pg/L
EB-SA6-SS-072611(RES)	1,2,3,7,8,9-HXCDD	0.576 pg/L	0.576U pg/L
EB-SA6-SS-072611(RES)	1,2,3,7,8,9-HXCDF	1.09 pg/L	1.09U pg/L
EB-SA6-SS-072611(RES)	2,3,4,6,7,8-HXCDF	0.368 pg/L	0.368U pg/L
EB-SA6-SS-072611(RES)	2,3,4,7,8-PECDF	1.95 pg/L	1.95U pg/L
EB-SA6-SS-072611(RES)	OCDD	7.99 pg/L	7.99U pg/L
EB-SA6-SS-072611(RES)	OCDF	1.26 pg/L	1.26U pg/L

Method Blank Outlier Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2220B371906	8/11/2011 7:06:00 PM	1,2,3,4,6,7,8-HPCDD	0.375 ng/Kg	DUP08-SA6-QC-072611
		1,2,3,4,6,7,8-HPCDF	0.0662 ng/Kg	DUP09-SA6-QC-072711
		1,2,3,4,7,8,9-HPCDF	0.0516 ng/Kg	SL-009-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HxCDD	0.0259 ng/Kg	SL-017-SA6-SS-0.0-0.5
		1,2,3,4,7,8-HXCDF	0.0276 ng/Kg	SL-028-SA6-SS-0.0-0.5
		1,2,3,6,7,8-HXCDD	0.0288 ng/Kg	SL-069-SA6-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0193 ng/Kg	SL-069-SA6-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0352 ng/Kg	SL-076-SA6-SB-2.0-3.0
		1,2,3,7,8,9-HXCDF	0.0495 ng/Kg	SL-077-SA6-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0249 ng/Kg	SL-077-SA6-SB-9.0-10.0
		1,2,3,7,8-PECDF	0.0262 ng/Kg	SL-080-SA6-SB-3.5-4.5
		2,3,4,6,7,8-HXCDF	0.0255 ng/Kg	SL-089-SA6-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0487 ng/Kg	SL-089-SA6-SB-9.0-10.0
		2,3,7,8-TCDD	0.0152 ng/Kg	SL-117-SA6-SB-2.0-3.0
		2,3,7,8-TCDF	0.0165 ng/Kg	SL-179-SA5DN-SB-4.0-5.0
		OCDD	1.08 ng/Kg	SL-179-SA5DN-SB-9.0-10.0
		OCDF	0.166 ng/Kg	SL-311-SA6-SS-0.0-0.5

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP08-SA6-QC-072611(RES)	2,3,7,8-TCDD	0.0680 ng/Kg	0.0680U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0266 ng/Kg	0.0266U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.120 ng/Kg	0.120U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.107 ng/Kg	0.107U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0782 ng/Kg	0.0782U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0733 ng/Kg	0.0733U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0117 ng/Kg	0.0117U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.37 ng/Kg	1.37U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0618 ng/Kg	0.0618U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0808 ng/Kg	0.0808U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0515 ng/Kg	0.0515U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.143 ng/Kg	0.143U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.164 ng/Kg	0.164U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0593 ng/Kg	0.0593U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	OCDF	0.396 ng/Kg	0.396U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.473 ng/Kg	0.473U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0620 ng/Kg	0.0620U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0199 ng/Kg	0.0199U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0227 ng/Kg	0.0227U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0393 ng/Kg	0.0393U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0689 ng/Kg	0.0689U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0310 ng/Kg	0.0310U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0152 ng/Kg	0.0152U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0478 ng/Kg	0.0478U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0638 ng/Kg	0.0638U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0129 ng/Kg	0.0129U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	OCDD	0.974 ng/Kg	0.974U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	OCDF	0.135 ng/Kg	0.135U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.102 ng/Kg	0.102U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0880 ng/Kg	0.0880U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0581 ng/Kg	0.0581U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0208 ng/Kg	0.0208U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-077-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0576 ng/Kg	0.0576U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.435 ng/Kg	0.435U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0648 ng/Kg	0.0648U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0331 ng/Kg	0.0331U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0177 ng/Kg	0.0177U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0438 ng/Kg	0.0438U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0325 ng/Kg	0.0325U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0446 ng/Kg	0.0446U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.0502 ng/Kg	0.0502U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0156 ng/Kg	0.0156U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0287 ng/Kg	0.0287U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0566 ng/Kg	0.0566U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	OCDD	1.08 ng/Kg	1.08U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	OCDF	0.172 ng/Kg	0.172U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.189 ng/Kg	0.189U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0727 ng/Kg	0.0727U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.176 ng/Kg	0.176U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0618 ng/Kg	0.0618U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0484 ng/Kg	0.0484U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0209 ng/Kg	0.0209U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-089-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-089-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-089-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0567 ng/Kg	0.0567U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.484 ng/Kg	0.484U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0624 ng/Kg	0.0624U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0963 ng/Kg	0.0963U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0527 ng/Kg	0.0527U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0715 ng/Kg	0.0715U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0756 ng/Kg	0.0756U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0586 ng/Kg	0.0586U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0959 ng/Kg	0.0959U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.131 ng/Kg	0.131U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0404 ng/Kg	0.0404U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	OCDD	2.07 ng/Kg	2.07U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	OCDF	0.349 ng/Kg	0.349U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0800 ng/Kg	0.0800U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0747 ng/Kg	0.0747U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0642 ng/Kg	0.0642U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.145 ng/Kg	0.145U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0285 ng/Kg	0.0285U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0536 ng/Kg	0.0536U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0467 ng/Kg	0.0467U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0903 ng/Kg	0.0903U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0116 ng/Kg	0.0116U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0278 ng/Kg	0.0278U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	OCDD	213	-17	40.00-135.00	22 (20.00)	OCDD	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	OCDF	180	-	40.00-135.00	36 (20.00)	OCDF	J(all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
MOISTURE	2.7	2.7	0		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
1,2,3,4,6,7,8-HPCDD	162	174	7	50.00	
1,2,3,4,6,7,8-HPCDF	30.9	30.8	0	50.00	
1,2,3,4,7,8,9-HPCDF	2.83	2.92	3	50.00	
1,2,3,4,7,8-HxCDD	1.58	1.50	5	50.00	
1,2,3,4,7,8-HXCDF	6.02	6.83	13	50.00	
1,2,3,6,7,8-HXCDD	6.58	6.42	2	50.00	
1,2,3,6,7,8-HXCDF	3.33	2.79	18	50.00	
1,2,3,7,8,9-HXCDD	3.42	3.63	6	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.876	0.819	7	50.00	
1,2,3,7,8-PECDD	1.32	1.24	6	50.00	
2,3,4,6,7,8-HXCDF	3.16	2.84	11	50.00	
2,3,4,7,8-PECDF	5.95	5.96	0	50.00	
2,3,7,8-TCDF	4.53	4.11	10	50.00	
OCDD	1920	1790	7	50.00	
OCDF	80.5	86.7	7	50.00	
1,2,3,7,8-PECDF	10.3	1.90	138	50.00	J(all detects)
2,3,7,8-TCDD	6.67	1.32	134	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	1,2,3,4,6,7,8-HPCDD	JB	2.95	9.80	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.567	9.80	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.369	9.80	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.225	9.80	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.334	9.80	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.679	9.80	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.463	9.80	PQL	pg/L	
	1,2,3,7,8-PECDF	JQ	0.377	9.80	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.611	9.80	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.571	1.96	PQL	pg/L	
	OCDD	JBQ	5.10	19.6	PQL	pg/L	
	OCDF	JB	0.922	19.6	PQL	pg/L	
EB-SA6-SS-072611	1,2,3,4,6,7,8-HPCDD	JBQ	3.71	9.94	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.69	9.94	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.449	9.94	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.484	9.94	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.392	9.94	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.576	9.94	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	1.09	9.94	PQL	pg/L	
	1,2,3,7,8-PECDF	JQ	1.65	9.94	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.368	9.94	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	1.95	9.94	PQL	pg/L	
	OCDD	JB	7.99	19.9	PQL	pg/L	
	OCDF	JBQ	1.26	19.9	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA6-QC-072611	1,2,3,4,7,8,9-HPCDF	JB	1.49	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.737	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.66	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.69	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.822	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.363	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.80	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0680	1.02	PQL	ng/Kg	
DUP09-SA6-QC-072711	1,2,3,4,7,8,9-HPCDF	JB	2.92	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.50	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.79	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.63	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.819	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.24	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.90	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.84	4.93	PQL	ng/Kg	
SL-009-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.83	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.58	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.33	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.42	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.876	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.32	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.16	5.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	4.75	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	4.18	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.17	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	2.18	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.36	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.326	1.00	PQL	ng/Kg	
SL-028-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.52	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.77	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.81	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.964	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.49	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.02	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.302	1.01	PQL	ng/Kg	
SL-069-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.401	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.124	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0266	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.104	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.120	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0597	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.107	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0782	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0351	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0526	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0733	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.106	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0117	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0257	1.04	PQL	ng/Kg	
	OCDF	JB	0.991	10.4	PQL	ng/Kg	
SL-069-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.37	5.48	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.150	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0618	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0355	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.358	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0808	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0515	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.143	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.164	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0451	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.140	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0593	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.261	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0825	1.10	PQL	ng/Kg	
	OCDD	JB	10.5	11.0	PQL	ng/Kg	
	OCDF	JB	0.396	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.473	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0433	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0620	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0199	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0227	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0393	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0311	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0689	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0310	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0268	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0152	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0478	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0638	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0129	1.08	PQL	ng/Kg	
	OCDD	JB	0.974	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.135	10.8	PQL	ng/Kg	
SL-077-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.83	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.326	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.102	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.174	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.518	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.125	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.220	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0880	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0581	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.655	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.204	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.282	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0208	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0649	1.08	PQL	ng/Kg	
	OCDF	JB	5.93	10.8	PQL	ng/Kg	
SL-077-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	1.48	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.238	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.19	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.931	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.944	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.421	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.806	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.231	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.926	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.13	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.24	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0576	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.481	1.15	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-080-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.435	5.19	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0648	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0331	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0177	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0497	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0438	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0325	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0446	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0502	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0156	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0287	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0566	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0625	5.19	PQL	ng/Kg	
	OCDD	JB	1.08	10.4	PQL	ng/Kg	
	OCDF	JB	0.172	10.4	PQL	ng/Kg	
SL-089-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.27	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.189	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0727	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.212	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.370	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.119	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.176	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0618	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0484	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.497	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.151	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.429	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0209	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.205	1.08	PQL	ng/Kg	
	OCDF	JB	2.80	10.8	PQL	ng/Kg	
SL-089-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	4.44	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.473	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.346	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.396	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.26	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.216	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.570	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.120	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.385	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.111	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.323	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.357	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0567	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.204	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX120 **Laboratory: LL**

EDD Filename: DX120_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-117-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.484	5.14	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.136	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0624	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0452	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0963	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0527	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0715	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0756	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0586	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0959	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.102	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0610	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.131	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0404	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0225	1.03	PQL	ng/Kg	
	OCDD	JB	2.07	10.3	PQL	ng/Kg	
	OCDF	JB	0.349	10.3	PQL	ng/Kg	
SL-179-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	2.33	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.90	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.982	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.11	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.11	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.328	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.713	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.638	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.80	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.626	5.16	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0859	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.126	1.03	PQL	ng/Kg	
SL-179-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.852	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.111	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0800	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0747	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.311	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0642	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.145	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0285	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0536	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0467	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0903	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0887	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0116	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0278	1.10	PQL	ng/Kg	
	OCDF	JB	1.98	11.0	PQL	ng/Kg	
SL-311-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.49	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.63	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.48	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	1.06	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.151	1.01	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX121

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359587	N	METHOD	1613B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359588	N	METHOD	1613B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359582	N	METHOD	1613B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359583	MS	METHOD	1613B	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359586	FD	METHOD	1613B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359589	N	METHOD	1613B	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359585	N	METHOD	1613B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359591	N	METHOD	1613B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359590	N	METHOD	1613B	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359580	N	METHOD	1613B	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359581	N	METHOD	1613B	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360515	N	METHOD	1613B	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360516	N	METHOD	1613B	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360520	N	METHOD	1613B	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360521	N	METHOD	1613B	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360519	N	METHOD	1613B	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360517	N	METHOD	1613B	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360518	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX121 Laboratory: LL

EDD Filename: DX121_v1. eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP21-SA5DN-QC-072811 *Collected:* 7/28/2011 10:19:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.12	JB	0.0169	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.177	JB	0.00765	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0442	JB	0.0185	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0398	JQ	0.0134	MDL	5.42	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0536	JB	0.0112	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0870	JBQ	0.0137	MDL	5.42	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0378	JBQ	0.00831	MDL	5.42	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0919	JB	0.0132	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0923	JBQ	0.0133	MDL	5.42	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0105	U	0.0105	MDL	5.42	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0467	JBQ	0.00721	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0484	JB	0.00931	MDL	5.42	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0711	JBQ	0.00798	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0235	JQ	0.0121	MDL	1.08	PQL	ng/Kg	J	Z, FD
OCDD	8.41	JB	0.0130	MDL	10.8	PQL	ng/Kg	J	Z, FD
OCDF	0.432	JB	0.0222	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-068-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 7:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.940	JB	0.0313	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.621	J	0.0322	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.666	JB	0.0266	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.02	JB	0.0330	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.502	JB	0.0218	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.767	JB	0.0318	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.263	JB	0.0224	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.321	JB	0.0236	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.513	JB	0.0172	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.635	JB	0.0224	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.423	JB	0.0207	MDL	5.63	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.148	J	0.0131	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.338	J	0.0274	MDL	1.13	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-068-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 7:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.35	JB	0.0122	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.227	JB	0.0185	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.142	J	0.0261	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.257	JB	0.0224	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.453	JB	0.0255	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.158	JB	0.0188	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.203	JB	0.0252	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0896	JB	0.0197	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.146	JB	0.0145	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.204	JB	0.0161	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.188	JB	0.0190	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.183	JBQ	0.0163	MDL	5.34	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0776	J	0.0118	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0796	JQ	0.0204	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	2.96	JB	0.0182	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0 *Collected:* 7/28/2011 11:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.94	JB	0.0292	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.557	JB	0.0399	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.343	J	0.0361	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.408	JB	0.0251	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.43	JB	0.0373	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.233	JB	0.0227	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.679	JB	0.0349	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.103	JB	0.0274	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.182	JB	0.0276	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.705	JB	0.0224	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.354	JB	0.0239	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.203	JB	0.0252	MDL	5.93	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0859	JQ	0.0136	MDL	1.19	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.270	JQ	0.0339	MDL	1.19	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-070-SA6-SB-4.0-5.0 *Collected:* 7/28/2011 10:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.696	JB	0.0111	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.163	JB	0.0251	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.121	J	0.0180	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.224	JB	0.0213	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.234	JB	0.0181	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.169	JB	0.0150	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.177	JB	0.0177	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.149	JB	0.0185	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.249	JBQ	0.0136	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.361	JB	0.00973	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.149	JB	0.0161	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.258	JB	0.0120	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0846	J	0.0120	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.110	J	0.0180	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	1.73	JB	0.0206	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-090-SA6-SB-3.0-4.0 *Collected:* 7/28/2011 11:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.363	JB	0.0122	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0582	JBQ	0.00587	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0362	JBQ	0.0188	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0109	JQ	0.00842	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0347	JB	0.00676	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0293	JBQ	0.00875	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0157	JBQ	0.00454	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0310	JB	0.00864	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0423	JBQ	0.00853	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0172	JBQ	0.00975	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0243	JBQ	0.00698	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0215	JB	0.00554	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0374	JBQ	0.00864	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0222	J	0.0112	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	1.12	JB	0.0106	MDL	10.8	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-090-SA6-SB-3.0-4.0 *Collected:* 7/28/2011 11:20:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.243	JBQ	0.0279	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-122-SA6-SB-0.0-0.5 *Collected:* 7/29/2011 2:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.57	JB	0.0248	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.234	J	0.0232	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.33	JB	0.0402	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.650	JB	0.0239	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.48	JB	0.0335	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.403	JB	0.0214	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.838	JB	0.0420	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.188	JB	0.0252	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.37	JB	0.0476	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.38	JB	0.0378	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.60	JB	0.0545	MDL	4.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0680	J	0.0112	MDL	0.983	PQL	ng/Kg	J	Z

Sample ID: SL-123-SA6-SB-4.0-5.0 *Collected:* 7/29/2011 9:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.86	JB	0.0388	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.30	J	0.0377	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.22	JB	0.0403	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.30	JB	0.0336	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.31	JB	0.0360	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.521	JB	0.0384	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.653	JB	0.0350	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.459	JB	0.0253	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.77	JB	0.0357	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.487	JB	0.0278	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.323	J	0.0128	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.277	J	0.0607	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	6810	EB	0.0556	MDL	10.6	PQL	ng/Kg	J	*XI

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory:** LL

EDD Filename: DX121_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-123-SA6-SB-7.0-8.0 *Collected:* 7/29/2011 9:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.36	JB	0.0323	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.55	J	0.0336	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.09	JB	0.0388	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.13	JB	0.0362	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.68	JB	0.0341	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.541	JB	0.0358	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.470	JB	0.0372	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.748	JB	0.0295	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.54	JB	0.0326	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.29	JB	0.0289	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.167	J	0.0124	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.02	J	0.0487	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 12:04:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.756	JB	0.0116	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0873	JBQ	0.0243	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.158	J	0.0402	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0874	JB	0.0265	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.413	JB	0.0420	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0721	JBQ	0.0223	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.467	JB	0.0386	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.320	JB	0.0311	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.119	JB	0.0203	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.190	JB	0.0163	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0825	JB	0.0255	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.112	JBQ	0.0195	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0186	JQ	0.0165	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.88	JB	0.0251	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.67	JB	0.0270	MDL	5.85	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-172-SA5DN-SB-9.0-10.0 *Collected:* 7/28/2011 12:09:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.732	JB	0.00993	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0718	JBQ	0.0202	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0893	J	0.0277	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0767	JBQ	0.0173	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.224	JB	0.0271	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0417	JB	0.0142	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.201	JB	0.0264	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0562	JB	0.0228	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0700	JBQ	0.0175	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0625	JBQ	0.0123	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0506	JB	0.0158	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0553	JBQ	0.0139	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0220	JQ	0.0169	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	1.98	JB	0.0201	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-174-SA5DN-SB-4.0-5.0 *Collected:* 7/29/2011 2:49:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.57	JB	0.0246	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.873	JB	0.00804	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.114	JB	0.0212	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0561	J	0.0217	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0892	JBQ	0.0177	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.230	JB	0.0219	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0649	JBQ	0.0132	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.127	JB	0.0204	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0448	JB	0.0192	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0511	JBQ	0.0162	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0582	JB	0.00851	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0793	JBQ	0.0159	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0605	JBQ	0.0112	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0361	J	0.0129	MDL	1.13	PQL	ng/Kg	J	Z
OCDF	1.93	JB	0.0216	MDL	11.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: GENCHEM

Method: 1613B **Matrix: SO**

Sample ID: SL-174-SA5DN-SB-9.0-10.0 *Collected:* 7/29/2011 2:51:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.989	JB	0.00575	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.142	JB	0.0147	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0715	JQ	0.0228	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.101	JB	0.0158	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.296	JB	0.0231	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0851	JB	0.0125	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.144	JB	0.0215	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0490	JB	0.0180	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0634	JB	0.0145	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0845	JBQ	0.00875	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.103	JB	0.0145	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0924	JB	0.00990	MDL	5.68	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0512	JQ	0.0106	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0336	JQ	0.0139	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	2.06	JB	0.0168	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SL-180-SA5DN-SB-4.0-5.0 *Collected:* 7/29/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.728	JB	0.0128	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.109	JB	0.00627	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0568	JBQ	0.0187	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0116	JQ	0.0107	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0267	JB	0.00810	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0392	JBQ	0.0109	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0165	JBQ	0.00570	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0363	JBQ	0.0104	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0335	JBQ	0.0104	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0129	JB	0.0107	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0282	JBQ	0.00650	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0205	JBQ	0.00673	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0404	JB	0.00775	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0169	JQ	0.0111	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0126	J	0.0121	MDL	1.12	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory:** LL

EDD Filename: DX121_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-180-SA5DN-SB-4.0-5.0 *Collected:* 7/29/2011 9:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	4.51	JB	0.0122	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.271	JBQ	0.0273	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-180-SA5DN-SB-9.0-10.0 *Collected:* 7/29/2011 9:12:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.57	JB	0.0152	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.293	JB	0.00563	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0751	JB	0.0171	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0402	J	0.0165	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0292	JB	0.0103	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.124	JB	0.0168	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0321	JB	0.00766	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0977	JB	0.0162	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0311	JBQ	0.0134	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0413	JBQ	0.0109	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0257	JBQ	0.00599	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0407	JB	0.00910	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0428	JBQ	0.00778	MDL	5.87	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0157	J	0.0109	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0171	JQ	0.0125	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	0.623	JB	0.0284	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-183-SA5DN-SB-4.0-5.0 *Collected:* 7/28/2011 10:11:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.800	JB	0.0184	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.113	JBQ	0.00617	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0361	JBQ	0.0175	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0161	J	0.0130	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0386	JB	0.00999	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0411	JBQ	0.0135	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0120	JBQ	0.00752	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0713	JBQ	0.0132	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0527	JBQ	0.0112	MDL	5.45	PQL	ng/Kg	UJ	B, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory:** LL

EDD Filename: DX121_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-183-SA5DN-SB-4.0-5.0 ***Collected:*** 7/28/2011 10:11:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0194	JBQ	0.0145	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0458	JBQ	0.00808	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0277	JBQ	0.00853	MDL	5.45	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0562	JBQ	0.00965	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0159	U	0.0159	MDL	1.09	PQL	ng/Kg	UJ	FD
OCDD	4.73	JB	0.0176	MDL	10.9	PQL	ng/Kg	J	Z, FD
OCDF	0.309	JB	0.0248	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-183-SA5DN-SB-9.0-10.0 ***Collected:*** 7/28/2011 10:30:00 ***Analysis Type:*** RES ***Dilution:*** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.554	JB	0.0177	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.109	JB	0.00803	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0807	JB	0.0157	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0677	J	0.0143	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0924	JBQ	0.0126	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0725	JBQ	0.0147	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0735	JBQ	0.00894	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0723	JBQ	0.0128	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0947	JB	0.0119	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0518	JBQ	0.0127	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0652	JBQ	0.00654	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0702	JB	0.00849	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0840	JB	0.00849	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0112	JQ	0.0111	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	2.78	JB	0.0173	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.310	JB	0.0237	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX121

Method Blank Outlier Report

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2230B371804	8/15/2011 6:04:00 PM	1,2,3,4,6,7,8-HPCDD	0.353 ng/Kg	DUP21-SA5DN-QC-072811
		1,2,3,4,6,7,8-HPCDF	0.0526 ng/Kg	SL-068-SA6-SB-19.0-20.0
		1,2,3,4,7,8,9-HPCDF	0.0314 ng/Kg	SL-068-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0198 ng/Kg	SL-070-SA6-SB-19.0-20.0
		1,2,3,6,7,8-HXCDD	0.0237 ng/Kg	SL-070-SA6-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0114 ng/Kg	SL-090-SA6-SB-3.0-4.0
		1,2,3,7,8,9-HXCDD	0.0270 ng/Kg	SL-122-SA6-SB-0.0-0.5
		1,2,3,7,8,9-HXCDF	0.0321 ng/Kg	SL-123-SA6-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0239 ng/Kg	SL-123-SA6-SB-7.0-8.0
		1,2,3,7,8-PECDF	0.0220 ng/Kg	SL-172-SA5DN-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0231 ng/Kg	SL-172-SA5DN-SB-9.0-10.0
		2,3,4,7,8-PECDF	0.0422 ng/Kg	SL-174-SA5DN-SB-4.0-5.0
		OCDD	0.751 ng/Kg	SL-174-SA5DN-SB-9.0-10.0
		OCDF	0.168 ng/Kg	SL-180-SA5DN-SB-4.0-5.0
				SL-180-SA5DN-SB-9.0-10.0
				SL-183-SA5DN-SB-4.0-5.0
				SL-183-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,6,7,8-HPCDD	1.12 ng/Kg	1.12U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,6,7,8-HPCDF	0.177 ng/Kg	0.177U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,7,8,9-HPCDF	0.0442 ng/Kg	0.0442U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,7,8-HXCDF	0.0536 ng/Kg	0.0536U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,6,7,8-HXCDD	0.0870 ng/Kg	0.0870U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,6,7,8-HXCDF	0.0378 ng/Kg	0.0378U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,7,8,9-HXCDD	0.0919 ng/Kg	0.0919U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,7,8,9-HXCDF	0.0923 ng/Kg	0.0923U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,7,8-PECDF	0.0467 ng/Kg	0.0467U ng/Kg
DUP21-SA5DN-QC-072811(RES)	2,3,4,6,7,8-HXCDF	0.0484 ng/Kg	0.0484U ng/Kg
DUP21-SA5DN-QC-072811(RES)	2,3,4,7,8-PECDF	0.0711 ng/Kg	0.0711U ng/Kg
DUP21-SA5DN-QC-072811(RES)	OCDF	0.432 ng/Kg	0.432U ng/Kg
SL-068-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0896 ng/Kg	0.0896U ng/Kg
SL-068-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.183 ng/Kg	0.183U ng/Kg
SL-070-SA6-SB-19.0-20.0(RES)	1,2,3,7,8,9-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-070-SA6-SB-19.0-20.0(RES)	2,3,4,7,8-PECDF	0.203 ng/Kg	0.203U ng/Kg
SL-070-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.149 ng/Kg	0.149U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.363 ng/Kg	0.363U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0362 ng/Kg	0.0362U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0347 ng/Kg	0.0347U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.0293 ng/Kg	0.0293U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0157 ng/Kg	0.0157U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0310 ng/Kg	0.0310U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0172 ng/Kg	0.0172U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0215 ng/Kg	0.0215U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0374 ng/Kg	0.0374U ng/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-090-SA6-SB-3.0-4.0(RES)	OCDD	1.12 ng/Kg	1.12U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	OCDF	0.243 ng/Kg	0.243U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0873 ng/Kg	0.0873U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0874 ng/Kg	0.0874U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.119 ng/Kg	0.119U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0718 ng/Kg	0.0718U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0767 ng/Kg	0.0767U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0562 ng/Kg	0.0562U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0700 ng/Kg	0.0700U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0508 ng/Kg	0.0506U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.114 ng/Kg	0.114U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0892 ng/Kg	0.0892U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.127 ng/Kg	0.127U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0448 ng/Kg	0.0448U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0511 ng/Kg	0.0511U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0793 ng/Kg	0.0793U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.142 ng/Kg	0.142U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0490 ng/Kg	0.0490U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0634 ng/Kg	0.0634U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0845 ng/Kg	0.0845U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.728 ng/Kg	0.728U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.109 ng/Kg	0.109U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0568 ng/Kg	0.0568U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0392 ng/Kg	0.0392U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0165 ng/Kg	0.0185U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0363 ng/Kg	0.0363U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0335 ng/Kg	0.0335U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0129 ng/Kg	0.0129U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0282 ng/Kg	0.0282U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0205 ng/Kg	0.0205U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-180-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	OCDF	0.271 ng/Kg	0.271U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0751 ng/Kg	0.0751U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0977 ng/Kg	0.0977U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0413 ng/Kg	0.0413U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0407 ng/Kg	0.0407U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0428 ng/Kg	0.0428U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	OCDF	0.623 ng/Kg	0.623U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.800 ng/Kg	0.800U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0411 ng/Kg	0.0411U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0120 ng/Kg	0.0120U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0713 ng/Kg	0.0713U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0527 ng/Kg	0.0527U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0194 ng/Kg	0.0194U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0458 ng/Kg	0.0458U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0562 ng/Kg	0.0562U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	OCDF	0.309 ng/Kg	0.309U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.554 ng/Kg	0.554U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.109 ng/Kg	0.109U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0807 ng/Kg	0.0807U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0725 ng/Kg	0.0725U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0947 ng/Kg	0.0947U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0518 ng/Kg	0.0518U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0652 ng/Kg	0.0652U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0840 ng/Kg	0.0840U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	OCDD	2.78 ng/Kg	2.78U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	OCDF	0.310 ng/Kg	0.310U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
MOISTURE	10.9	9.8	11		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
1,2,3,4,6,7,8-HPCDD	0.800	1.12	33	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.113	0.177	44	50.00	
1,2,3,4,7,8,9-HPCDF	0.0361	0.0442	20	50.00	
1,2,3,4,7,8-HXCDF	0.0386	0.0536	33	50.00	
1,2,3,7,8,9-HXCDD	0.0713	0.0919	25	50.00	
1,2,3,7,8-PECDF	0.0458	0.0467	2	50.00	
2,3,4,7,8-PECDF	0.0562	0.0711	23	50.00	
OCDF	0.309	0.432	33	50.00	
1,2,3,4,7,8-HxCDD	0.0161	0.0398	85	50.00	J(all detects) UJ(all non-detects)
1,2,3,6,7,8-HXCDD	0.0411	0.0870	72	50.00	
1,2,3,6,7,8-HXCDF	0.0120	0.0378	104	50.00	
1,2,3,7,8,9-HXCDF	0.0527	0.0923	55	50.00	
1,2,3,7,8-PECDD	0.0194	5.42 U	200	50.00	
2,3,4,6,7,8-HXCDF	0.0277	0.0484	54	50.00	
2,3,7,8-TCDF	1.09 U	0.0235	200	50.00	
OCDD	4.73	8.41	56	50.00	

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP21-SA5DN-QC-072811	1,2,3,4,6,7,8-HPCDD	JB	1.12	5.42	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.177	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0442	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0398	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0536	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0870	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0378	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0919	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0923	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0467	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0484	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0711	5.42	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0235	1.08	PQL	ng/Kg	
	OCDD	JB	8.41	10.8	PQL	ng/Kg	
	OCDF	JB	0.432	10.8	PQL	ng/Kg	
SL-068-SA6-SB-19.0-20.0	1,2,3,4,7,8,9-HPCDF	JB	0.940	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.621	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.666	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.02	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.502	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.767	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.263	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.321	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.513	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.635	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.423	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.148	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.338	1.13	PQL	ng/Kg	
SL-068-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.35	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.227	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.142	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.257	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.453	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.158	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.203	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0896	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.146	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.204	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.188	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.183	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0776	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0796	1.07	PQL	ng/Kg	
	OCDF	JB	2.96	10.7	PQL	ng/Kg	
SL-070-SA6-SB-19.0-20.0	1,2,3,4,6,7,8-HPCDF	JB	4.94	5.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.557	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.343	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.408	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.43	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.233	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.679	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.103	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.182	5.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.705	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.354	5.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.203	5.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0859	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.270	1.19	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-070-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.696	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.163	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.121	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.224	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.234	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.169	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.177	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.149	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.249	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.361	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.149	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.258	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0846	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.110	1.08	PQL	ng/Kg	
	OCDF	JB	1.73	10.8	PQL	ng/Kg	
SL-090-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.363	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0582	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0362	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0109	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0347	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0293	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0157	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0310	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0423	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0172	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0243	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0215	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0374	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0222	1.08	PQL	ng/Kg	
	OCDD	JB	1.12	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.243	10.8	PQL	ng/Kg	
SL-122-SA6-SB-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.57	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.234	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.33	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.650	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.48	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.403	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.838	4.91	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.188	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.37	4.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.38	4.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.60	4.91	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0680	0.983	PQL	ng/Kg	
SL-123-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	3.86	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.30	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.22	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.30	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.31	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.521	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.653	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.459	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.77	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.487	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.323	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.277	1.06	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA6-SB-7.0-8.0	1,2,3,4,7,8,9-HPCDF	JB	2.36	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	1.55	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.09	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.13	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.68	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.541	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.470	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.748	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.54	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.29	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.167	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	1.02	1.09	PQL	ng/Kg	
SL-172-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.756	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0873	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.158	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0874	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.413	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0721	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.467	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.320	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.119	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0825	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.112	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0186	1.11	PQL	ng/Kg	
	OCDF	JB	1.88	11.1	PQL	ng/Kg	
SL-172-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	5.67	5.85	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.732	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0718	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0893	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0767	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.224	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0417	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.201	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0562	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0700	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0625	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0506	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0553	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0220	1.17	PQL	ng/Kg	
	OCDF	JB	1.98	11.7	PQL	ng/Kg	
SL-174-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	5.57	5.65	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.873	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.114	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0561	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0892	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.230	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0649	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.127	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0448	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0511	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0582	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0793	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0605	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0361	1.13	PQL	ng/Kg	
	OCDF	JB	1.93	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-174-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.989	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.142	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0715	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.101	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.296	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0851	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.144	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0490	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0634	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0845	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.103	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0924	5.68	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0512	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0336	1.14	PQL	ng/Kg	
	OCDF	JB	2.06	11.4	PQL	ng/Kg	
SL-180-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.728	5.59	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.109	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0568	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0116	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0267	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0392	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0165	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0363	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0335	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0129	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0282	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0205	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0404	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0169	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0126	1.12	PQL	ng/Kg	
	OCDD	JB	4.51	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.271	11.2	PQL	ng/Kg	
SL-180-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.57	5.87	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.293	5.87	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0751	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0402	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0292	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.124	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0321	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0977	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0311	5.87	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0413	5.87	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0257	5.87	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0407	5.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0428	5.87	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0157	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0171	1.17	PQL	ng/Kg	
	OCDF	JB	0.623	11.7	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX121 **Laboratory: LL**

EDD Filename: DX121_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-183-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.800	5.45	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.113	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0361	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0161	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0386	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0411	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0120	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0713	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0527	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0194	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0458	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0277	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0562	5.45	PQL	ng/Kg	
	OCDD	JB	4.73	10.9	PQL	ng/Kg	
	OCDF	JB	0.309	10.9	PQL	ng/Kg	
SL-183-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.554	5.70	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.109	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0807	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0677	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0924	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0725	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0735	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0723	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0947	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0518	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0652	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0702	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0840	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0112	1.14	PQL	ng/Kg	
	OCDD	JB	2.78	11.4	PQL	ng/Kg	
	OCDF	JB	0.310	11.4	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX123

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361794	N	METHOD	1613B	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361795	N	METHOD	1613B	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361788	N	METHOD	1613B	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361789	N	METHOD	1613B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361796	N	METHOD	1613B	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361786	N	METHOD	1613B	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361787	N	METHOD	1613B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361790	N	METHOD	1613B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361791	MS	METHOD	1613B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361797	FD	METHOD	1613B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361793	N	METHOD	1613B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363178	N	METHOD	1613B	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363172	N	METHOD	1613B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363176	N	METHOD	1613B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363177	N	METHOD	1613B	III
02-Aug-2011	EB-SA6-SB-080211	6363175	EB	METHOD	1613B	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363173	N	METHOD	1613B	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363174	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: AQ**

Sample ID: EB-SA6-SB-080211 *Collected:* 8/2/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.60	JBQ	0.181	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.333	JB	0.0620	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0716	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.177	JBQ	0.0557	MDL	10.4	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.255	JBQ	0.132	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.189	JBQ	0.118	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.0584	JBQ	0.0577	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.117	JBQ	0.0969	MDL	10.4	PQL	pg/L	U	B
2,3,7,8-TCDF	0.136	JQ	0.133	MDL	2.07	PQL	pg/L	J	Z
OCDD	7.82	JB	0.226	MDL	20.7	PQL	pg/L	U	B
OCDF	0.709	JBQ	0.182	MDL	20.7	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: DUP22-SA5DN-QC-080111 *Collected:* 8/1/2011 2:52:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.551	JB	0.0496	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.245	JBQ	0.0542	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.285	JB	0.0362	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.59	JB	0.0551	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.239	JB	0.0325	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.609	JB	0.0494	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.156	JBQ	0.0420	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.157	JBQ	0.0416	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.385	JB	0.0199	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.323	JB	0.0346	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.142	JB	0.0202	MDL	5.46	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0336	JB	0.0182	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0521	JBQ	0.0294	MDL	1.09	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory:** LL

EDD Filename: DX123_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-127-SA6-SB-2.0-3.0 *Collected:* 8/1/2011 10:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.536	JB	0.0313	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.305	JB	0.0503	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	2.45	JB	0.0540	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.00	JB	0.0517	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.618	JB	0.0508	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.515	JB	0.0495	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.245	JB	0.0551	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.257	JB	0.0319	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.38	JB	0.0687	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.629	JB	0.0509	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0984	JB	0.0140	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.255	JB	0.129	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA6-SB-4.0-5.0 *Collected:* 8/2/2011 12:25:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.38	JB	0.0411	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.43	JB	0.0151	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.199	JB	0.0267	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0391	JBQ	0.0222	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.847	JB	0.0363	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.222	JB	0.0227	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.185	JB	0.0313	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.117	JB	0.0205	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0953	JB	0.0398	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0392	JBQ	0.0165	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0559	JBQ	0.0148	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.157	JB	0.0341	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.294	JBQ	0.0145	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0201	JBQ	0.0174	MDL	1.04	PQL	ng/Kg	U	B
OCDF	1.48	JB	0.0351	MDL	10.4	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory:** LL

EDD Filename: DX123_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-128-SA6-SB-7.5-8.5 *Collected:* 8/2/2011 12:35:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.66	JB	0.0356	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.27	JB	0.0121	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.144	JB	0.0215	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0316	JB	0.0196	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.592	JB	0.0409	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.152	JB	0.0192	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.155	JB	0.0337	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.144	JBQ	0.0199	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.121	JBQ	0.0390	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0419	JBQ	0.0173	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0833	JBQ	0.0138	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.169	JB	0.0360	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.224	JB	0.0148	MDL	5.35	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0477	JBQ	0.0226	MDL	1.07	PQL	ng/Kg	U	B
OCDF	1.21	JB	0.0364	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.247	JBQ	0.0171	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0462	JBQ	0.00527	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0211	JBQ	0.0110	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0141	JBQ	0.0125	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0196	JB	0.00883	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0242	JBQ	0.0127	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0239	JB	0.00721	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0504	JB	0.0121	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0509	JBQ	0.0100	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0335	JBQ	0.0140	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0219	JB	0.00947	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0125	JBQ	0.0101	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0392	JBQ	0.00990	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0154	JBQ	0.0137	MDL	1.06	PQL	ng/Kg	U	B
OCDD	0.711	JB	0.0233	MDL	10.6	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory:** LL

EDD Filename: DX123_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-145-SA6-SB-3.5-4.5 *Collected:* 8/2/2011 8:28:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.110	JBQ	0.0228	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-160-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 8:46:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.305	JB	0.0193	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0524	JB	0.00608	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0455	JB	0.0125	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0343	JBQ	0.00946	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0207	JBQ	0.0151	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0316	JBQ	0.00800	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0490	JBQ	0.0135	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0438	JBQ	0.0114	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0179	JBQ	0.0179	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0293	JBQ	0.0109	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0225	JB	0.00912	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0411	JBQ	0.0116	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0214	JBQ	0.0173	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0173	JBQ	0.0164	MDL	1.11	PQL	ng/Kg	U	B
OCDD	0.896	JB	0.0298	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.176	JBQ	0.0304	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.395	JB	0.0258	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0600	JBQ	0.00769	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0411	JBQ	0.0161	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0249	JBQ	0.0144	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0792	JBQ	0.0175	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0243	JBQ	0.0118	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.168	JB	0.0151	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.311	JB	0.0172	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0438	JB	0.0231	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0989	JB	0.0140	MDL	5.50	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-162-SA5DN-SB-4.0-5.0 *Collected:* 8/2/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0323	JBQ	0.0134	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0534	JB	0.0153	MDL	5.50	PQL	ng/Kg	U	B
OCDD	1.56	JB	0.0318	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.185	JBQ	0.0479	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-162-SA5DN-SB-9.0-10.0 *Collected:* 8/2/2011 3:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.330	JB	0.0256	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0710	JB	0.00806	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0247	JB	0.0166	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0268	JB	0.0126	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0564	JB	0.0164	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0250	JB	0.0104	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0745	JB	0.0164	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0851	JB	0.0142	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0331	JBQ	0.0145	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0272	JB	0.0120	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0426	JBQ	0.0154	MDL	5.69	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0286	JBQ	0.0191	MDL	1.14	PQL	ng/Kg	U	B
OCDD	1.15	JB	0.0338	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.189	JBQ	0.0397	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-170-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 12:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.94	JB	0.0214	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.244	JB	0.0248	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.212	JB	0.0653	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.275	JB	0.0334	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.815	JB	0.0660	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JB	0.0320	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.383	JB	0.0653	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.156	JB	0.0330	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.141	JBQ	0.0283	MDL	5.40	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-170-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 12:01:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.345	JB	0.0267	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.157	JB	0.0318	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.143	JB	0.0256	MDL	5.40	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0351	JBQ	0.0162	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0903	JB	0.0455	MDL	1.08	PQL	ng/Kg	U	B
OCDF	4.55	JB	0.0266	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-170-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 12:02:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.756	JB	0.0288	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.172	JB	0.00880	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0725	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0301	JB	0.0166	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.111	JB	0.0141	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0535	JBQ	0.0167	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0533	JB	0.0126	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0587	JBQ	0.0156	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0722	JBQ	0.0159	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0372	JBQ	0.0216	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.152	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0420	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0538	JBQ	0.0140	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0313	JBQ	0.0289	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0621	JBQ	0.0265	MDL	1.11	PQL	ng/Kg	U	B
OCDD	10.4	JB	0.0248	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.418	JB	0.0310	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-173-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 10:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.09	JB	0.0273	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JB	0.0109	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0442	JBQ	0.0176	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0483	JBQ	0.0130	MDL	5.67	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-173-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 10:03:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0690	JBQ	0.0193	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0460	JBQ	0.0110	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0732	JBQ	0.0177	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0486	JBQ	0.0128	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0635	JBQ	0.0181	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0423	JBQ	0.0134	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0363	JB	0.0120	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0547	JB	0.0148	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0230	JBQ	0.0224	MDL	1.13	PQL	ng/Kg	U	B
OCDD	8.99	JB	0.0218	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.497	JB	0.0321	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-173-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 10:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.964	JB	0.0278	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.151	JB	0.0101	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0524	JBQ	0.0165	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0302	JBQ	0.0167	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0392	JBQ	0.0141	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0682	JB	0.0172	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0345	JBQ	0.0119	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0596	JBQ	0.0159	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0316	JBQ	0.0150	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0504	JBQ	0.0315	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0425	JBQ	0.0135	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0665	JBQ	0.0150	MDL	5.68	PQL	ng/Kg	U	B
OCDD	7.55	JB	0.0248	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.380	JBQ	0.0316	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.497	JB	0.0428	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.368	JB	0.0441	MDL	5.37	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-175-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 2:45:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.337	JB	0.0384	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.93	JB	0.0447	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.298	JB	0.0367	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.813	JB	0.0448	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.180	JB	0.0371	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.231	JB	0.0340	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.578	JB	0.0267	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.399	JB	0.0362	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.355	JB	0.0257	MDL	5.37	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0418	JB	0.0193	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0596	JB	0.0379	MDL	1.07	PQL	ng/Kg	U	B

Sample ID: SL-175-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 2:53:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.834	JB	0.0211	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.150	JB	0.0314	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.135	JB	0.0339	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.129	JB	0.0308	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.397	JB	0.0352	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JB	0.0276	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.189	JB	0.0341	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0302	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.150	JBQ	0.0280	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.135	JB	0.0137	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.149	JB	0.0295	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JBQ	0.0140	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0323	JB	0.0189	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0305	JBQ	0.0226	MDL	1.13	PQL	ng/Kg	U	B
OCDF	2.11	JB	0.0370	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 8:21:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.33	JB	0.0502	MDL	5.39	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory:** LL

EDD Filename: DX123_v1. **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-176-SA5DN-SB-4.0-5.0 *Collected:* 8/1/2011 8:21:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.776	JB	0.0563	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.532	JB	0.0499	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.10	JB	0.0570	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.628	JB	0.0453	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.75	JB	0.0509	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.260	JB	0.0520	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.440	JB	0.0553	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.328	JB	0.0251	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.865	JB	0.0465	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.299	JBQ	0.0254	MDL	5.39	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0319	JBQ	0.0203	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0880	JBQ	0.0407	MDL	1.08	PQL	ng/Kg	U	B

Sample ID: SL-176-SA5DN-SB-9.0-10.0 *Collected:* 8/1/2011 8:23:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.80	JB	0.0192	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.238	JB	0.0345	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.106	JB	0.0458	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0946	JB	0.0270	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.560	JB	0.0462	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0952	JB	0.0234	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.216	JB	0.0439	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0689	JBQ	0.0311	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.102	JBQ	0.0282	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.103	JB	0.0135	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.135	JBQ	0.0266	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0864	JBQ	0.0142	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0268	JB	0.0154	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0243	JB	0.0194	MDL	1.12	PQL	ng/Kg	U	B
OCDF	4.52	JB	0.0369	MDL	11.2	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

EPA Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX123

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 Laboratory: LL

EDD Filename: DX123_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2200B371122	8/10/2011 11:22:00 AM	1,2,3,4,6,7,8-HPCDD	3.70 pg/L	EB-SA6-SB-080211
		1,2,3,4,6,7,8-HPCDF	0.669 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.287 pg/L	
		1,2,3,4,7,8-HXCDF	0.230 pg/L	
		1,2,3,6,7,8-HXCDD	0.448 pg/L	
		1,2,3,7,8,9-HXCDD	0.265 pg/L	
		1,2,3,7,8,9-HXCDF	0.242 pg/L	
		1,2,3,7,8-PECDD	0.290 pg/L	
		1,2,3,7,8-PECDF	0.198 pg/L	
		2,3,4,6,7,8-HXCDF	0.227 pg/L	
		2,3,4,7,8-PECDF	0.517 pg/L	
		OCDD	9.52 pg/L	
		OCDF	1.03 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-080211(RES)	1,2,3,4,6,7,8-HPCDD	3.60 pg/L	3.60U pg/L
EB-SA6-SB-080211(RES)	1,2,3,4,6,7,8-HPCDF	0.333 pg/L	0.333U pg/L
EB-SA6-SB-080211(RES)	1,2,3,4,7,8,9-HPCDF	0.121 pg/L	0.121U pg/L
EB-SA6-SB-080211(RES)	1,2,3,4,7,8-HXCDF	0.177 pg/L	0.177U pg/L
EB-SA6-SB-080211(RES)	1,2,3,6,7,8-HXCDD	0.255 pg/L	0.255U pg/L
EB-SA6-SB-080211(RES)	1,2,3,7,8,9-HXCDD	0.189 pg/L	0.189U pg/L
EB-SA6-SB-080211(RES)	1,2,3,7,8,9-HXCDF	0.0584 pg/L	0.0584U pg/L
EB-SA6-SB-080211(RES)	1,2,3,7,6-PECDF	0.117 pg/L	0.117U pg/L
EB-SA6-SB-080211(RES)	OCDD	7.82 pg/L	7.82U pg/L
EB-SA6-SB-080211(RES)	OCDF	0.709 pg/L	0.709U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2270B370700	8/18/2011 7:00:00 AM	1,2,3,4,6,7,8-HPCDD	0.291 ng/Kg	DUP22-SA5DN-QC-080111
		1,2,3,4,6,7,8-HPCDF	0.0805 ng/Kg	SL-127-SA6-SB-2.0-3.0
		1,2,3,4,7,8,9-HPCDF	0.0937 ng/Kg	SL-128-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HxCDD	0.0633 ng/Kg	SL-128-SA6-SB-7.5-8.5
		1,2,3,4,7,8-HXCDF	0.0930 ng/Kg	SL-145-SA6-SB-3.5-4.5
		1,2,3,6,7,8-HXCDD	0.0625 ng/Kg	SL-160-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0813 ng/Kg	SL-162-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDD	0.0795 ng/Kg	SL-162-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDF	0.0433 ng/Kg	SL-170-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.117 ng/Kg	SL-170-SA5DN-SB-9.0-10.0
		1,2,3,7,8-PECDF	0.135 ng/Kg	SL-173-SA5DN-SB-4.0-5.0
		2,3,4,6,7,8-HXCDF	0.0641 ng/Kg	SL-173-SA5DN-SB-9.0-10.0
		2,3,4,7,8-PECDF	0.133 ng/Kg	SL-175-SA5DN-SB-4.0-5.0
		2,3,7,8-TCDD	0.0389 ng/Kg	SL-175-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDF	0.0485 ng/Kg	SL-176-SA5DN-SB-4.0-5.0
		OCDD	0.620 ng/Kg	SL-176-SA5DN-SB-9.0-10.0
		OCDF	0.171 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP22-SA5DN-QC-080111(RES)	1,2,3,4,7,8-HxCDD	0.245 ng/Kg	0.245U ng/Kg

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP22-SA5DN-QC-080111(RES)	1,2,3,4,7,8-HXCDF	0.285 ng/Kg	0.285U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,6,7,8-HXCDF	0.239 ng/Kg	0.239U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,7,8,9-HXCDF	0.156 ng/Kg	0.156U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,7,8-PECDD	0.157 ng/Kg	0.157U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,7,8-PECDF	0.385 ng/Kg	0.385U ng/Kg
DUP22-SA5DN-QC-080111(RES)	2,3,4,7,8-PECDF	0.142 ng/Kg	0.142U ng/Kg
DUP22-SA5DN-QC-080111(RES)	2,3,7,8-TCDD	0.0336 ng/Kg	0.0336U ng/Kg
DUP22-SA5DN-QC-080111(RES)	2,3,7,8-TCDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-127-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.305 ng/Kg	0.305U ng/Kg
SL-127-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.257 ng/Kg	0.257U ng/Kg
SL-127-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0984 ng/Kg	0.0984U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.199 ng/Kg	0.199U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0391 ng/Kg	0.0391U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.222 ng/Kg	0.222U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.185 ng/Kg	0.185U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.117 ng/Kg	0.117U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0953 ng/Kg	0.0953U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0392 ng/Kg	0.0392U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0559 ng/Kg	0.0559U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.294 ng/Kg	0.294U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0201 ng/Kg	0.0201U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.144 ng/Kg	0.144U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,4,7,8-HxCDD	0.0316 ng/Kg	0.0316U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.152 ng/Kg	0.152U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.144 ng/Kg	0.144U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8-PECDD	0.0419 ng/Kg	0.0419U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	2,3,7,8-TCDF	0.0477 ng/Kg	0.0477U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.247 ng/Kg	0.247U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0462 ng/Kg	0.0462U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0211 ng/Kg	0.0211U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0141 ng/Kg	0.0141U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0242 ng/Kg	0.0242U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0504 ng/Kg	0.0504U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.0509 ng/Kg	0.0509U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0335 ng/Kg	0.0335U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0219 ng/Kg	0.0219U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0125 ng/Kg	0.0125U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	2,3,7,8-TCDF	0.0154 ng/Kg	0.0154U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	OCDD	0.711 ng/Kg	0.711U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	OCDF	0.110 ng/Kg	0.110U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.305 ng/Kg	0.305U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0343 ng/Kg	0.0343U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0207 ng/Kg	0.0207U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0316 ng/Kg	0.0316U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0490 ng/Kg	0.0490U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0438 ng/Kg	0.0438U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0179 ng/Kg	0.0179U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0214 ng/Kg	0.0214U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0173 ng/Kg	0.0173U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	OCDD	0.898 ng/Kg	0.896U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	OCDF	0.176 ng/Kg	0.176U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.395 ng/Kg	0.395U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0600 ng/Kg	0.0600U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0792 ng/Kg	0.0792U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.168 ng/Kg	0.168U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0438 ng/Kg	0.0438U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0989 ng/Kg	0.0989U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0323 ng/Kg	0.0323U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0534 ng/Kg	0.0534U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	OCDD	1.56 ng/Kg	1.56U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	OCDF	0.185 ng/Kg	0.185U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.330 ng/Kg	0.330U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0710 ng/Kg	0.0710U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0247 ng/Kg	0.0247U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0564 ng/Kg	0.0564U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0250 ng/Kg	0.0250U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0745 ng/Kg	0.0745U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0851 ng/Kg	0.0851U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0331 ng/Kg	0.0331U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0272 ng/Kg	0.0272U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0286 ng/Kg	0.0286U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	OCDD	1.15 ng/Kg	1.15U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	OCDF	0.189 ng/Kg	0.189U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.244 ng/Kg	0.244U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.212 ng/Kg	0.212U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.275 ng/Kg	0.275U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.383 ng/Kg	0.383U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.156 ng/Kg	0.156U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.141 ng/Kg	0.141U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.345 ng/Kg	0.345U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.143 ng/Kg	0.143U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0903 ng/Kg	0.0903U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,6-HPCDD	0.756 ng/Kg	0.756U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.172 ng/Kg	0.172U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0301 ng/Kg	0.0301U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0535 ng/Kg	0.0535U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0587 ng/Kg	0.0587U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0722 ng/Kg	0.0722U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0372 ng/Kg	0.0372U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.152 ng/Kg	0.152U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0538 ng/Kg	0.0538U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0313 ng/Kg	0.0313U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	OCDF	0.418 ng/Kg	0.418U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.09 ng/Kg	1.09U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0442 ng/Kg	0.0442U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0483 ng/Kg	0.0483U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0690 ng/Kg	0.0690U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0732 ng/Kg	0.0732U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0486 ng/Kg	0.0486U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0635 ng/Kg	0.0635U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	2,3,4,8,7,8-HXCDF	0.0363 ng/Kg	0.0363U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0547 ng/Kg	0.0547U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0230 ng/Kg	0.0230U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	OCDF	0.497 ng/Kg	0.497U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.964 ng/Kg	0.964U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.151 ng/Kg	0.151U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0302 ng/Kg	0.0302U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0682 ng/Kg	0.0682U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0596 ng/Kg	0.0596U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0316 ng/Kg	0.0316U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0504 ng/Kg	0.0504U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0425 ng/Kg	0.0425U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0665 ng/Kg	0.0665U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	OCDF	0.380 ng/Kg	0.380U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.337 ng/Kg	0.337U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.298 ng/Kg	0.298U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.231 ng/Kg	0.231U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.578 ng/Kg	0.578U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.355 ng/Kg	0.355U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0418 ng/Kg	0.0418U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0596 ng/Kg	0.0596U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.135 ng/Kg	0.135U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.189 ng/Kg	0.189U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX123 Laboratory: LL

EDD Filename: DX123_v1. eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.150 ng/Kg	0.150U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.135 ng/Kg	0.135U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.149 ng/Kg	0.149U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0323 ng/Kg	0.0323U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0305 ng/Kg	0.0305U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.440 ng/Kg	0.440U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.328 ng/Kg	0.328U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.299 ng/Kg	0.299U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0319 ng/Kg	0.0319U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0880 ng/Kg	0.0880U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.238 ng/Kg	0.238U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0946 ng/Kg	0.0946U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0952 ng/Kg	0.0952U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.216 ng/Kg	0.216U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0689 ng/Kg	0.0689U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.102 ng/Kg	0.102U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0864 ng/Kg	0.0864U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0268 ng/Kg	0.0268U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0243 ng/Kg	0.0243U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
MOISTURE	9.2	9.2	0		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0-5.0	DUP22-SA5DN-QC-080111			
1,2,3,4,6,7,8-HPCDD	48.0	40.8	16	50.00	
1,2,3,4,6,7,8-HPCDF	6.13	5.67	8	50.00	
1,2,3,4,7,8,9-HPCDF	0.497	0.551	10	50.00	
1,2,3,4,7,8-HxCDD	0.368	0.245	40	50.00	
1,2,3,4,7,8-HXCDF	0.337	0.285	17	50.00	
1,2,3,6,7,8-HXCDD	1.93	1.59	19	50.00	
1,2,3,6,7,8-HXCDF	0.298	0.239	22	50.00	
1,2,3,7,8,9-HXCDD	0.813	0.609	29	50.00	
1,2,3,7,8,9-HXCDF	0.180	0.156	14	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.231	0.157	38	50.00	
1,2,3,7,8-PECDF	0.578	0.385	40	50.00	
2,3,4,6,7,8-HXCDF	0.399	0.323	21	50.00	
2,3,7,8-TCDD	0.0418	0.0336	22	50.00	
2,3,7,8-TCDF	0.0596	0.0521	13	50.00	
OCDD	565	413	31	50.00	
OCDF	15.7	16.9	7	50.00	
2,3,4,7,8-PECDF	0.355	0.142	86	50.00	J(all detects)

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	1,2,3,4,6,7,8-HPCDD	JBQ	3.60	10.4	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JB	0.333	10.4	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.121	10.4	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.177	10.4	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.255	10.4	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.189	10.4	PQL	pg/L	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0584	10.4	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.117	10.4	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.136	2.07	PQL	pg/L	
	OCDD	JB	7.82	20.7	PQL	pg/L	
	OCDF	JBQ	0.709	20.7	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	1,2,3,4,7,8,9-HPCDF	JB	0.551	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.245	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.285	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.59	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.239	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.609	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.156	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.157	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.385	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.323	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.142	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0336	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0521	1.09	PQL	ng/Kg	
SL-127-SA6-SB-2.0-3.0	1,2,3,4,7,8,9-HPCDF	JB	0.536	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.305	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.45	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.00	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.618	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.515	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.245	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.257	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.38	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.629	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0984	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.255	1.00	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	4.38	5.21	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.43	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.199	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0391	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.847	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.222	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.185	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.117	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0953	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0392	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0559	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.157	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.294	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0201	1.04	PQL	ng/Kg	
	OCDF	JB	1.48	10.4	PQL	ng/Kg	
SL-128-SA6-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JB	2.66	5.35	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.27	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.144	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0316	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.592	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.152	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.155	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.144	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.121	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0419	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0833	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.169	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.224	5.35	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0477	1.07	PQL	ng/Kg	
	OCDF	JB	1.21	10.7	PQL	ng/Kg	
SL-145-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.247	5.30	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0462	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0211	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0141	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0196	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0242	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0239	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0504	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0509	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0335	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0219	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0125	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0392	5.30	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0154	1.06	PQL	ng/Kg	
	OCDD	JB	0.711	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.110	10.6	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.305	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0524	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0455	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0343	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0207	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0316	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0490	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0438	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0179	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0293	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0225	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0411	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0214	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0173	1.11	PQL	ng/Kg	
	OCDD	JB	0.896	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.176	11.1	PQL	ng/Kg	
SL-162-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.395	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0600	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0411	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0249	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0792	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0243	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.168	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.311	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0438	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0989	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0323	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0534	5.50	PQL	ng/Kg	
	OCDD	JB	1.56	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.185	11.0	PQL	ng/Kg	
SL-162-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.330	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0710	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0247	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0268	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0564	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0250	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0745	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0851	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0331	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0272	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0426	5.69	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0286	1.14	PQL	ng/Kg	
	OCDD	JB	1.15	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.189	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-170-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.94	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.244	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.212	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.275	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.815	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.147	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.383	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.156	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.141	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.345	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.157	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.143	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0351	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0903	1.08	PQL	ng/Kg	
	OCDF	JB	4.55	10.8	PQL	ng/Kg	
SL-170-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.756	5.53	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.172	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0725	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0301	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.111	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0535	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0533	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0587	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0722	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0372	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.152	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0420	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0538	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0313	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0621	1.11	PQL	ng/Kg	
	OCDD	JB	10.4	11.1	PQL	ng/Kg	
	OCDF	JB	0.418	11.1	PQL	ng/Kg	
SL-173-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.09	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.195	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0442	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0483	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0690	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0460	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0732	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0486	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0635	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0423	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0363	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0547	5.67	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0230	1.13	PQL	ng/Kg	
	OCDD	JB	8.99	11.3	PQL	ng/Kg	
	OCDF	JB	0.497	11.3	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.964	5.68	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.151	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0524	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0302	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0392	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0682	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0345	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDD	JBQ	0.0596	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0316	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0504	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0425	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0665	5.68	PQL	ng/Kg	
	OCDD	JB	7.55	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.380	11.4	PQL	ng/Kg	
SL-175-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.497	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.368	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.337	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.93	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.298	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.813	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.180	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.231	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.578	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.399	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.355	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0418	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0596	1.07	PQL	ng/Kg	
SL-175-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.834	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.150	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.135	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.129	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.397	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.125	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.189	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.135	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.150	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.135	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.149	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.170	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0323	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0305	1.13	PQL	ng/Kg	
	OCDF	JB	2.11	11.3	PQL	ng/Kg	
SL-176-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.33	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.776	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.532	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.10	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.628	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.75	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.260	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.440	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.328	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.865	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.299	5.39	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0319	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0880	1.08	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX123 **Laboratory: LL**

EDD Filename: DX123_v1. **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-176-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.80	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.238	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0946	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.560	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0952	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.216	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0689	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.102	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.103	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.135	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0864	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0268	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0243	1.12	PQL	ng/Kg	
	OCDF	JB	4.52	11.2	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX124

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364636	N	METHOD	1613B	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364633	N	METHOD	1613B	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364634	N	METHOD	1613B	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364638	N	METHOD	1613B	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364635	N	METHOD	1613B	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364639	N	METHOD	1613B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364637	EB	METHOD	1613B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364640	N	METHOD	1613B	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364631	N	METHOD	1613B	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364632	N	METHOD	1613B	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364641	N	METHOD	1613B	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366529	N	METHOD	1613B	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366528	N	METHOD	1613B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366524	N	METHOD	1613B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366525	MS	METHOD	1613B	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366530	FD	METHOD	1613B	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366527	N	METHOD	1613B	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366522	N	METHOD	1613B	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366523	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX124 Laboratory: LL

EDD Filename: DX124_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** AQ

Sample ID: EB23-SA5DN-SB-080311 *Collected:* 8/3/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.78	JBQ	0.257	MDL	11.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.491	JBQ	0.119	MDL	11.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.350	JBQ	0.135	MDL	11.2	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.216	JQ	0.190	MDL	11.2	PQL	pg/L	J	Z
1,2,3,4,7,8-HXCDF	0.211	JB	0.123	MDL	11.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.339	JBQ	0.204	MDL	11.2	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.263	JQ	0.109	MDL	11.2	PQL	pg/L	J	Z
1,2,3,7,8-PECDD	0.493	JBQ	0.264	MDL	11.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.557	JBQ	0.179	MDL	11.2	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.256	JBQ	0.118	MDL	11.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.634	JBQ	0.173	MDL	11.2	PQL	pg/L	U	B
OCDD	8.38	JB	0.413	MDL	22.4	PQL	pg/L	U	B
OCDF	0.812	JBQ	0.285	MDL	22.4	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.553	JB	0.0133	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0922	JB	0.00432	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0292	JB	0.0102	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0395	JB	0.0105	MDL	5.31	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0860	JB	0.00787	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0993	JBQ	0.0111	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0697	JB	0.00643	MDL	5.31	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.163	JB	0.0108	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.193	JB	0.00965	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0762	JB	0.0110	MDL	5.31	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.178	JB	0.00654	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0467	JB	0.00765	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.125	JB	0.00698	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0290	JQ	0.00942	MDL	1.06	PQL	ng/Kg	J	Z, FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory:** LL

EDD Filename: DX124_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP23-SA5DN-QC-080411 *Collected:* 8/4/2011 10:59:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0436	JB	0.0120	MDL	1.06	PQL	ng/Kg	UJ	B, FD
OCDD	5.41	JB	0.0116	MDL	10.6	PQL	ng/Kg	J	Z, FD
OCDF	0.251	JBQ	0.0195	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-002-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 2:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.99	JB	0.0170	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.983	JB	0.0267	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.126	JB	0.0238	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.521	JB	0.0226	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.31	JB	0.0249	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.305	JB	0.0214	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.496	JB	0.0231	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.174	JB	0.0269	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.209	JB	0.0225	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.13	JB	0.0175	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.358	JB	0.0212	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.812	JB	0.0177	MDL	5.53	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0335	J	0.0151	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.256	JB	0.0348	MDL	1.11	PQL	ng/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.89	JB	0.0119	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.773	JB	0.0225	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0984	JB	0.0248	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.681	JB	0.0197	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.826	JB	0.0254	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.423	JB	0.0171	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.295	JB	0.0244	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.167	JB	0.0209	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0749	JB	0.0150	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.82	JB	0.0192	MDL	5.49	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-002-SA6-SB-9.0-10.0 *Collected:* 8/3/2011 2:33:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.345	JB	0.0180	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.67	JB	0.0193	MDL	5.49	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0170	J	0.0102	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.323	JB	0.0384	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	10.8	JB	0.0202	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-003-SA6-SB-4.0-5.0 *Collected:* 8/3/2011 8:40:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.73	JB	0.0131	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.560	JB	0.0261	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0728	JB	0.0212	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.319	JB	0.0210	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.650	JB	0.0213	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.212	JB	0.0177	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.268	JB	0.0207	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0997	JB	0.0234	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0835	JB	0.0152	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.409	JB	0.0155	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.229	JB	0.0185	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.505	JB	0.0159	MDL	5.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0327	J	0.0137	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0893	JB	0.0297	MDL	1.17	PQL	ng/Kg	U	B
OCDF	7.17	JB	0.0261	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-003-SA6-SB-8.5-9.5 *Collected:* 8/3/2011 8:44:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.67	JB	0.0124	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.521	JB	0.0202	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0873	JB	0.0228	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.412	JB	0.0179	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.690	JB	0.0240	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.214	JB	0.0157	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.263	JB	0.0217	MDL	5.47	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX124 Laboratory: LL

EDD Filename: DX124_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-003-SA6-SB-8.5-9.5 *Collected:* 8/3/2011 8:44:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.106	JBQ	0.0193	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0489	JB	0.0167	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.354	JB	0.0150	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.251	JB	0.0161	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.715	JB	0.0153	MDL	5.47	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0352	J	0.0121	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.264	JB	0.0312	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	7.76	JB	0.0218	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5 *Collected:* 8/3/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.86	JB	0.0110	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.490	JB	0.0286	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0871	JB	0.0195	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.199	JB	0.0161	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.722	JB	0.0198	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.143	JBQ	0.0126	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.249	JB	0.0187	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0347	JBQ	0.0204	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0272	JBQ	0.0126	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0840	JB	0.00872	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.181	JB	0.0139	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.120	JB	0.00955	MDL	5.15	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0138	JQ	0.0113	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0152	JBQ	0.0116	MDL	1.03	PQL	ng/Kg	U	B
OCDF	8.66	JB	0.0304	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-011-SA6-SB-0.5-1.5 *Collected:* 8/3/2011 7:54:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.77	JB	0.0162	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.324	JB	0.00697	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0846	JB	0.0126	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0570	JB	0.0155	MDL	5.27	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-011-SA6-SB-0.5-1.5 *Collected:* 8/3/2011 7:54:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.165	JB	0.0158	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.197	JB	0.0160	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0916	JB	0.0126	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.157	JB	0.0154	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0612	JB	0.0153	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JBQ	0.0134	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0907	JB	0.00954	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0810	JB	0.0120	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.371	JB	0.0101	MDL	5.27	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0383	J	0.0108	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	0.657	JB	0.0208	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-185-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 3:20:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.411	JB	0.0141	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0610	JBQ	0.00459	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0534	JB	0.0148	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0172	JBQ	0.0103	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0240	JB	0.00781	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0521	JBQ	0.0108	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0204	JBQ	0.00586	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0612	JBQ	0.0102	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0932	JBQ	0.00999	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0146	JB	0.0103	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0223	JBQ	0.00608	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0216	JB	0.00700	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0530	JB	0.00700	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0159	J	0.0117	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	1.18	JB	0.0118	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.194	JBQ	0.0347	MDL	11.4	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory:** LL

EDD Filename: DX124_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-185-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 3:30:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.436	JB	0.0149	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0605	JB	0.00411	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0455	JBQ	0.0131	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0288	JBQ	0.00651	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0143	JBQ	0.00926	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0141	JBQ	0.00491	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0348	JBQ	0.00846	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0383	JB	0.00857	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0205	JBQ	0.00926	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0136	JB	0.00526	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0127	JBQ	0.00549	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0385	JB	0.00617	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0114	JBQ	0.0106	MDL	1.14	PQL	ng/Kg	U	B
OCDD	2.94	JB	0.0127	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.303	JB	0.0337	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.516	JB	0.0146	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.147	JB	0.00529	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0849	JB	0.0144	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.154	JB	0.0112	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.263	JB	0.0112	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.170	JB	0.0116	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.214	JB	0.00863	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.152	JB	0.0112	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.200	JB	0.0148	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.298	JB	0.0136	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.352	JB	0.00725	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.147	JB	0.0100	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.339	JB	0.00806	MDL	5.73	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0952	J	0.0131	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.105	JB	0.0139	MDL	1.15	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory:** LL

EDD Filename: DX124_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-188-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 10:57:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	1.93	JB	0.0129	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.295	JB	0.0255	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-188-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 11:58:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.904	JB	0.0162	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.203	JB	0.00538	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0855	JB	0.0155	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.106	JB	0.0115	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.239	JB	0.0127	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.153	JB	0.0123	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.183	JB	0.00974	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.182	JB	0.0118	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.218	JBQ	0.0174	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.192	JB	0.0129	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.431	JB	0.00997	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.121	JB	0.0119	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.304	JB	0.0112	MDL	5.57	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0764	J	0.0115	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.137	JB	0.0246	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	6.68	JB	0.0136	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.445	JB	0.0304	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.535	JB	0.0142	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0913	JB	0.00418	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0461	JB	0.0142	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0112	JBQ	0.0111	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0910	JB	0.0100	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0686	JB	0.0112	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0249	JB	0.00736	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.176	JB	0.0109	MDL	5.24	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX124 Laboratory: LL

EDD Filename: DX124_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-189-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 10:52:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.227	JB	0.0138	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0182	JB	0.0120	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.231	JB	0.00978	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0404	JB	0.00868	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.115	JB	0.0113	MDL	5.24	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0108	U	0.0108	MDL	1.05	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0754	JB	0.0241	MDL	1.05	PQL	ng/Kg	UJ	B, FD
OCDD	2.91	JB	0.0100	MDL	10.5	PQL	ng/Kg	J	Z, FD
OCDF	0.221	JB	0.0284	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-189-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 11:37:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.36	JB	0.0151	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.261	JB	0.00611	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.133	JB	0.0180	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0690	JBQ	0.0141	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.295	JB	0.0149	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.120	JB	0.0146	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.129	JB	0.0113	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.146	JB	0.0140	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.177	JB	0.0176	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.120	JB	0.0125	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.643	JB	0.0151	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.138	JB	0.0131	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.237	JB	0.0175	MDL	5.67	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0229	JQ	0.0110	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.188	JB	0.0385	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	8.78	JB	0.0136	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.717	JB	0.0294	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.81	JB	0.00879	MDL	5.56	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-193-SA5DN-SB-4.0-5.0 *Collected:* 8/3/2011 2:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.357	JB	0.0227	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.141	JB	0.0203	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.313	JB	0.0169	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.542	JB	0.0215	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.208	JB	0.0138	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.307	JB	0.0194	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.161	JB	0.0203	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.150	JB	0.0171	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.588	JB	0.0124	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.268	JB	0.0154	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.403	JB	0.0138	MDL	5.56	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0357	J	0.0126	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.167	JB	0.0345	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	8.65	JB	0.0326	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0 *Collected:* 8/3/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.16	JB	0.0237	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.806	JB	0.00635	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.134	JB	0.0210	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0462	JB	0.0157	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.153	JB	0.0126	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.220	JB	0.0166	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0868	JB	0.00947	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.127	JB	0.0165	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0417	JBQ	0.0180	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0374	JB	0.0117	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.136	JBQ	0.00970	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.104	JB	0.0115	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.195	JB	0.0109	MDL	5.57	PQL	ng/Kg	U	B
OCDF	2.12	JB	0.0358	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory:** LL

EDD Filename: DX124_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-204-SA5DN-SB-4.0-5.0 *Collected:* 8/4/2011 9:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.02	JB	0.0234	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.600	JB	0.00665	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.129	JB	0.0200	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.115	JB	0.0150	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.453	JB	0.0173	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.291	JB	0.0160	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.165	JB	0.0129	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.437	JB	0.0156	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.404	JB	0.0220	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.173	JB	0.0159	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.516	JB	0.0135	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.168	JB	0.0161	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.394	JB	0.0154	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0495	J	0.0105	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.171	JB	0.0345	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	1.52	JB	0.0315	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.688	JB	0.0127	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.134	JB	0.00456	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0672	JB	0.0137	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0929	JB	0.0116	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.150	JB	0.0106	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.146	JB	0.0122	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.104	JB	0.00760	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.233	JB	0.0118	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.311	JB	0.0143	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.154	JB	0.0130	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.248	JBQ	0.00655	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0769	JB	0.00877	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.195	JB	0.00737	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0436	J	0.00994	MDL	1.17	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-204-SA5DN-SB-9.0-10.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0890	JBQ	0.0119	MDL	1.17	PQL	ng/Kg	U	B
OCDD	4.26	JB	0.0119	MDL	11.7	PQL	ng/Kg	J	Z
OCDF	0.274	JB	0.0283	MDL	11.7	PQL	ng/Kg	U	B

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control Outlier Reports

DX124

Method Blank Outlier Report

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2200B371122	8/10/2011 11:22:00 AM	1,2,3,4,6,7,8-HPCDD	3.70 pg/L	EB23-SA5DN-SB-080311
		1,2,3,4,6,7,8-HPCDF	0.669 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.287 pg/L	
		1,2,3,4,7,8-HXCDF	0.230 pg/L	
		1,2,3,6,7,8-HXCDD	0.448 pg/L	
		1,2,3,7,8,9-HXCDD	0.265 pg/L	
		1,2,3,7,8,9-HXCDF	0.242 pg/L	
		1,2,3,7,8-PECDD	0.290 pg/L	
		1,2,3,7,8-PECDF	0.198 pg/L	
		2,3,4,6,7,8-HXCDF	0.227 pg/L	
		2,3,4,7,8-PECDF	0.517 pg/L	
		OCDD	9.52 pg/L	
		OCDF	1.03 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB23-SA5DN-SB-080311(RES)	1,2,3,4,6,7,8-HPCDD	3.78 pg/L	3.78U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,4,6,7,8-HPCDF	0.491 pg/L	0.491U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,4,7,8,9-HPCDF	0.350 pg/L	0.350U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,4,7,8-HXCDF	0.211 pg/L	0.211U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,6,7,8-HXCDD	0.339 pg/L	0.339U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,7,8-PECDD	0.493 pg/L	0.493U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,7,8-PECDF	0.557 pg/L	0.557U pg/L
EB23-SA5DN-SB-080311(RES)	2,3,4,6,7,8-HXCDF	0.256 pg/L	0.256U pg/L
EB23-SA5DN-SB-080311(RES)	2,3,4,7,8-PECDF	0.634 pg/L	0.634U pg/L
EB23-SA5DN-SB-080311(RES)	OCDD	8.38 pg/L	8.38U pg/L
EB23-SA5DN-SB-080311(RES)	OCDF	0.812 pg/L	0.812U pg/L

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2290B371948	8/18/2011 7:48:00 PM	1,2,3,4,6,7,8-HPCDD	0.267 ng/Kg	DUP23-SA5DN-QC-080411
		1,2,3,4,6,7,8-HPCDF	0.0532 ng/Kg	SL-002-SA6-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0269 ng/Kg	SL-002-SA6-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.0255 ng/Kg	SL-003-SA6-SB-4.0-5.0
		1,2,3,4,7,8-HXCDF	0.0250 ng/Kg	SL-003-SA6-SB-8.5-9.5
		1,2,3,6,7,8-HXCDD	0.0273 ng/Kg	SL-004-SA6-SB-1.5-2.5
		1,2,3,6,7,8-HXCDF	0.0177 ng/Kg	SL-011-SA6-SB-0.5-1.5
		1,2,3,7,8,9-HXCDD	0.0242 ng/Kg	SL-185-SA5DN-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0309 ng/Kg	SL-185-SA5DN-SB-9.0-10.0
		1,2,3,7,8-PECDD	0.0222 ng/Kg	SL-188-SA5DN-SB-4.0-5.0
		1,2,3,7,8-PECDF	0.0101 ng/Kg	SL-188-SA5DN-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0227 ng/Kg	SL-189-SA5DN-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0441 ng/Kg	SL-189-SA5DN-SB-9.0-10.0
		2,3,7,8-TCDF	0.0189 ng/Kg	SL-193-SA5DN-SB-4.0-5.0
		OCDD	0.507 ng/Kg	SL-193-SA5DN-SB-9.0-10.0
		OCDF	0.138 ng/Kg	SL-204-SA5DN-SB-4.0-5.0
				SL-204-SA5DN-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,6,7,8-HPCDD	0.553 ng/Kg	0.553U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,6,7,8-HPCDF	0.0922 ng/Kg	0.0922U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,7,8,9-HPCDF	0.0292 ng/Kg	0.0292U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,7,8-HxCDD	0.0395 ng/Kg	0.0395U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,7,8-HXCDF	0.0860 ng/Kg	0.0860U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,6,7,8-HXCDD	0.0993 ng/Kg	0.0993U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,6,7,8-HXCDF	0.0697 ng/Kg	0.0697U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,7,8-PECDD	0.0762 ng/Kg	0.0762U ng/Kg
DUP23-SA5DN-QC-080411(RES)	2,3,4,6,7,8-HXCDF	0.0467 ng/Kg	0.0467U ng/Kg
DUP23-SA5DN-QC-080411(RES)	2,3,4,7,8-PECDF	0.125 ng/Kg	0.125U ng/Kg
DUP23-SA5DN-QC-080411(RES)	2,3,7,8-TCDF	0.0436 ng/Kg	0.0436U ng/Kg
DUP23-SA5DN-QC-080411(RES)	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-002-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.126 ng/Kg	0.126U ng/Kg
SL-002-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0984 ng/Kg	0.0984U ng/Kg
SL-002-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0728 ng/Kg	0.0728U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0997 ng/Kg	0.0997U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0835 ng/Kg	0.0835U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0893 ng/Kg	0.0893U ng/Kg
SL-003-SA6-SB-8.5-9.5(RES)	1,2,3,4,7,8-HxCDD	0.0873 ng/Kg	0.0873U ng/Kg
SL-003-SA6-SB-8.5-9.5(RES)	1,2,3,7,8,9-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-003-SA6-SB-8.5-9.5(RES)	1,2,3,7,8-PECDD	0.0489 ng/Kg	0.0489U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	1,2,3,4,7,8-HxCDD	0.0871 ng/Kg	0.0871U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	1,2,3,7,8,9-HXCDF	0.0347 ng/Kg	0.0347U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	1,2,3,7,8-PECDD	0.0272 ng/Kg	0.0272U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	2,3,7,8-TCDF	0.0152 ng/Kg	0.0152U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	1,2,3,4,7,8-HxCDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDF	0.0612 ng/Kg	0.0612U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	2,3,4,6,7,8-HXCDF	0.0810 ng/Kg	0.0810U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	OCDF	0.657 ng/Kg	0.657U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.411 ng/Kg	0.411U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0534 ng/Kg	0.0534U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0172 ng/Kg	0.0172U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0240 ng/Kg	0.0240U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0521 ng/Kg	0.0521U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0204 ng/Kg	0.0204U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0612 ng/Kg	0.0612U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0932 ng/Kg	0.0932U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0146 ng/Kg	0.0146U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0223 ng/Kg	0.0223U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0216 ng/Kg	0.0216U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0530 ng/Kg	0.0530U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	OCDD	1.18 ng/Kg	1.18U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	OCDF	0.194 ng/Kg	0.194U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.436 ng/Kg	0.436U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0288 ng/Kg	0.0288U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0143 ng/Kg	0.0143U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0141 ng/Kg	0.0141U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0348 ng/Kg	0.0348U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0383 ng/Kg	0.0383U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0205 ng/Kg	0.0205U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0136 ng/Kg	0.0136U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0127 ng/Kg	0.0127U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0385 ng/Kg	0.0385U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0114 ng/Kg	0.0114U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	OCDF	0.303 ng/Kg	0.303U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.516 ng/Kg	0.516U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.147 ng/Kg	0.147U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0849 ng/Kg	0.0849U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	OCDD	1.93 ng/Kg	1.93U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	OCDF	0.295 ng/Kg	0.295U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.904 ng/Kg	0.904U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.203 ng/Kg	0.203U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0855 ng/Kg	0.0855U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	OCDF	0.445 ng/Kg	0.445U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.535 ng/Kg	0.535U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0913 ng/Kg	0.0913U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0461 ng/Kg	0.0461U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0112 ng/Kg	0.0112U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0910 ng/Kg	0.0910U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0686 ng/Kg	0.0686U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0182 ng/Kg	0.0182U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0404 ng/Kg	0.0404U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX124 | Laboratory: LL

EDD Filename: DX124_v1 | eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-189-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.115 ng/Kg	0.115U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0754 ng/Kg	0.0754U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	OCDF	0.221 ng/Kg	0.221U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.261 ng/Kg	0.261U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0690 ng/Kg	0.0890U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.120 ng/Kg	0.120U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0462 ng/Kg	0.0462U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0374 ng/Kg	0.0374U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.195 ng/Kg	0.195U ng/Kg
SL-204-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-204-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.115 ng/Kg	0.115U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.688 ng/Kg	0.688U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0672 ng/Kg	0.0672U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0929 ng/Kg	0.0929U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0769 ng/Kg	0.0769U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.195 ng/Kg	0.195U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0890 ng/Kg	0.0890U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	OCDF	0.274 ng/Kg	0.274U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
MOISTURE	9.0	9.8	9		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
1,2,3,4,6,7,8-HPCDD	0.535	0.553	3	50.00	
1,2,3,4,6,7,8-HPCDF	0.0913	0.0922	1	50.00	
1,2,3,4,7,8,9-HPCDF	0.0461	0.0292	45	50.00	
1,2,3,4,7,8-HXCDF	0.0910	0.0860	6	50.00	
1,2,3,6,7,8-HXCDD	0.0686	0.0993	37	50.00	
1,2,3,7,8,9-HXCDD	0.176	0.163	8	50.00	No Qualifiers Applied
1,2,3,7,8,9-HXCDF	0.227	0.193	16	50.00	
1,2,3,7,8-PECDF	0.231	0.178	26	50.00	
2,3,4,6,7,8-HXCDF	0.0404	0.0467	14	50.00	
2,3,4,7,8-PECDF	0.115	0.125	8	50.00	
OCDF	0.221	0.251	13	50.00	
1,2,3,4,7,8-HxCDD	0.0112	0.0395	112	50.00	
1,2,3,6,7,8-HXCDF	0.0249	0.0697	95	50.00	
1,2,3,7,8-PECDD	0.0182	0.0762	123	50.00	J(all detects)
2,3,7,8-TCDD	1.05 U	0.0290	200	50.00	UJ(all non-detects)
2,3,7,8-TCDF	0.0754	0.0436	53	50.00	
OCDD	2.91	5.41	60	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	1,2,3,4,6,7,8-HPCDD	JBQ	3.78	11.2	PQL	pg/L	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.491	11.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.350	11.2	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JQ	0.216	11.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.211	11.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.339	11.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JQ	0.263	11.2	PQL	pg/L	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.493	11.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.557	11.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.256	11.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.634	11.2	PQL	pg/L	
	OCDD	JB	8.38	22.4	PQL	pg/L	
	OCDF	JBQ	0.812	22.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP23-SA5DN-QC-080411	1,2,3,4,6,7,8-HPCDD	JB	0.553	5.31	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0922	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0292	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0395	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0860	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0993	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0697	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.163	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.193	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0762	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.178	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0467	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.125	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0290	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0436	1.06	PQL	ng/Kg	
	OCDD	JB	5.41	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.251	10.6	PQL	ng/Kg	
SL-002-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.99	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.983	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.126	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.521	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.31	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.305	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.496	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.174	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.209	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.13	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.358	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.812	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0335	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.256	1.11	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	3.89	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.773	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0984	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.681	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.826	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.423	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.295	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.167	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0749	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.82	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.345	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.67	5.49	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0170	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.323	1.10	PQL	ng/Kg	
	OCDF	JB	10.8	11.0	PQL	ng/Kg	
SL-003-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.73	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.560	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0728	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.319	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.650	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.212	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.268	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0997	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0835	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.409	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.229	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.505	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0327	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0893	1.17	PQL	ng/Kg	
	OCDF	JB	7.17	11.7	PQL	ng/Kg	
SL-003-SA6-SB-8.5-9.5	1,2,3,4,6,7,8-HPCDF	JB	2.67	5.47	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.521	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0873	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.412	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.690	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.214	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.263	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.106	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0489	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.354	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.251	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.715	5.47	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0352	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.264	1.09	PQL	ng/Kg	
	OCDF	JB	7.76	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA6-SB-1.5-2.5	1,2,3,4,6,7,8-HPCDF	JB	2.86	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.490	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0871	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.199	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.722	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.143	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.249	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0347	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0272	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0840	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.181	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.120	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0138	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0152	1.03	PQL	ng/Kg	
	OCDF	JB	8.66	10.3	PQL	ng/Kg	
SL-011-SA6-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JB	1.77	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.324	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0846	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0570	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.165	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.197	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0916	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.157	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.0612	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.118	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0907	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0810	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.371	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0383	1.05	PQL	ng/Kg	
	OCDF	JB	0.657	10.5	PQL	ng/Kg	
SL-185-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.411	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0610	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0534	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0172	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0240	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0521	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0204	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0612	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0932	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0146	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0223	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0216	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0530	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0159	1.14	PQL	ng/Kg	
	OCDD	JB	1.18	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.194	11.4	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.436	5.71	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0605	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0455	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0288	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0143	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0141	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0348	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0383	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JBQ	0.0205	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0136	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0127	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0385	5.71	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0114	1.14	PQL	ng/Kg	
	OCDD	JB	2.94	11.4	PQL	ng/Kg	
	OCDF	JB	0.303	11.4	PQL	ng/Kg	
SL-188-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.516	5.73	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.147	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0849	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.154	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.263	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.170	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.214	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.152	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.200	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.298	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.352	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.147	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.339	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0952	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.105	1.15	PQL	ng/Kg	
	OCDD	JB	1.93	11.5	PQL	ng/Kg	
	OCDF	JB	0.295	11.5	PQL	ng/Kg	
SL-188-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.904	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.203	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0855	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.239	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.153	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.183	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.182	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.218	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.192	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.431	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.121	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.304	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0764	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.137	1.11	PQL	ng/Kg	
	OCDD	JB	6.68	11.1	PQL	ng/Kg	
	OCDF	JB	0.445	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-189-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.535	5.24	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0913	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0461	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0112	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0910	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0686	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0249	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.176	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.227	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.0182	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.231	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0404	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.115	5.24	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0754	1.05	PQL	ng/Kg	
	OCDD	JB	2.91	10.5	PQL	ng/Kg	
	OCDF	JB	0.221	10.5	PQL	ng/Kg	
SL-189-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.36	5.67	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.261	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.133	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0690	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.295	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.120	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.129	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.146	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.177	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.120	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.643	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.138	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.237	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0229	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.188	1.13	PQL	ng/Kg	
	OCDD	JB	8.78	11.3	PQL	ng/Kg	
	OCDF	JB	0.717	11.3	PQL	ng/Kg	
SL-193-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.81	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.357	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.141	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.313	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.542	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.208	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.307	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.161	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	0.150	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.588	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.268	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.403	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0357	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.167	1.11	PQL	ng/Kg	
	OCDF	JB	8.65	11.1	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX124 **Laboratory: LL**

EDD Filename: DX124_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	5.16	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.806	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.134	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0462	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.153	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.220	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0868	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.127	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0417	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0374	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.136	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.104	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.195	5.57	PQL	ng/Kg	
	OCDF	JB	2.12	11.1	PQL	ng/Kg	
SL-204-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.02	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.600	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.129	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.115	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.453	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.291	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.165	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.437	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.404	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.173	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.516	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.168	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.394	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0495	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.171	1.10	PQL	ng/Kg	
	OCDF	JB	1.52	11.0	PQL	ng/Kg	
SL-204-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.688	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.134	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0672	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0929	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.150	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.146	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.104	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.233	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.311	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.154	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.248	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0769	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.195	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0436	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0890	1.17	PQL	ng/Kg	
	OCDD	JB	4.26	11.7	PQL	ng/Kg	
	OCDF	JB	0.274	11.7	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX125

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366548	N	METHOD	1613B	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366549	N	METHOD	1613B	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366556	N	METHOD	1613B	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366557	N	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366550	N	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366551	MS	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366552	MSD	METHOD	1613B	III
04-Aug-2011	DUP11-SA6-QC-080411	6366558	FD	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366553	N	METHOD	1613B	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366546	N	METHOD	1613B	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366547	N	METHOD	1613B	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366554	N	METHOD	1613B	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366555	N	METHOD	1613B	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367765	N	METHOD	1613B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367772	N	METHOD	1613B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367773	N	METHOD	1613B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367767	N	METHOD	1613B	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367766	N	METHOD	1613B	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367770	N	METHOD	1613B	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367771	N	METHOD	1613B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367768	N	METHOD	1613B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367769	N	METHOD	1613B	III

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX125 Laboratory: LL

EDD Filename: DX125_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: DUP11-SA6-QC-080411 *Collected:* 8/4/2011 11:10:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.05	JB	0.113	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.270	JB	0.0981	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.928	J	0.0921	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	2.23	J	0.101	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.798	J	0.0828	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.602	JQ	0.0959	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.189	JBQ	0.0928	MDL	5.41	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.148	JQ	0.0803	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.755	JQ	0.0574	MDL	5.41	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.967	JQ	0.0854	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.603	JBQ	0.0566	MDL	5.41	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.274	JQ	0.0996	MDL	1.08	PQL	ng/Kg	J	Z, FD
OCDD	1990	B	0.214	MDL	10.8	PQL	ng/Kg	J	FD
OCDF	25.2	B	0.0788	MDL	10.8	PQL	ng/Kg	J	FD

Sample ID: SL-006-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.363	JB	0.0966	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0438	JBQ	0.0420	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0814	JQ	0.0432	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0770	JQ	0.0570	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0503	JBQ	0.0465	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0454	JBQ	0.0430	MDL	5.44	PQL	ng/Kg	U	B
OCDD	0.691	JB	0.0473	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.119	JBQ	0.0917	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-006-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.488	JBQ	0.0768	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0850	JBQ	0.0277	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0465	JBQ	0.0457	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.253	JQ	0.0602	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0651	JQ	0.0408	MDL	5.63	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX125 Laboratory: LL

EDD Filename: DX125_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-006-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 11:50:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.437	JQ	0.0584	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.588	JBQ	0.0484	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0975	JQ	0.0437	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0721	JBQ	0.0448	MDL	5.63	PQL	ng/Kg	U	B
OCDD	1.11	JB	0.0483	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.205	JBQ	0.0782	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-010-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 8:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.330	JB	0.0856	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0907	JBQ	0.0329	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0765	JQ	0.0611	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0506	JQ	0.0308	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0469	JBQ	0.0290	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0612	JQ	0.0441	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0482	JBQ	0.0419	MDL	5.58	PQL	ng/Kg	U	B
OCDD	1.09	JBQ	0.0707	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.106	JBQ	0.0906	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-014-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 7:55:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.09	JB	0.0578	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.920	JB	0.0909	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.452	JQ	0.0821	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.933	J	0.0997	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.311	JQ	0.0674	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.302	J	0.0960	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.101	JBQ	0.0559	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.67	JQ	0.0677	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.293	J	0.0716	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.268	JBQ	0.0652	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.185	JQ	0.150	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	9.75	JB	0.0863	MDL	11.0	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-014-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 8:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.22	JBQ	0.132	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.188	JBQ	0.119	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.684	JQ	0.0989	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.00	J	0.126	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.354	J	0.0828	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.721	J	0.119	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.213	JBQ	0.0642	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.150	JQ	0.0930	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.843	JQ	0.0912	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.553	JQ	0.0849	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.383	JB	0.0855	MDL	5.50	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.356	JQ	0.183	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: SL-019-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 11:05:00 *Analysis Type:* REA *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	1.79	C	0.0502	MDL	1.08	PQL	ng/Kg	J	FD

Sample ID: SL-019-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 11:05:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.54	JB	0.0802	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.230	JBQ	0.0941	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	8.24		0.0919	MDL	5.41	PQL	ng/Kg	J	FD
1,2,3,6,7,8-HXCDD	1.79	J	0.0913	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.63	J	0.0838	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.553	J	0.0898	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.717	JB	0.0709	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.170	JQ	0.0993	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.69	J	0.0839	MDL	5.41	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	1.52	J	0.0780	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.13	JB	0.0761	MDL	5.41	PQL	ng/Kg	J	Z, FD
OCDD	1060	B	0.142	MDL	10.8	PQL	ng/Kg	J	FD
OCDF	14.7	B	0.0664	MDL	10.8	PQL	ng/Kg	J	FD

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-019-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 11:15:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.18	JB	0.0576	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.480	JBQ	0.0858	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.153	JBQ	0.0808	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.346	J	0.0765	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.650	J	0.0814	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.328	JQ	0.0675	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.300	JQ	0.0807	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JB	0.0591	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.338	JQ	0.0833	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.613	JQ	0.0602	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.370	J	0.0699	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.430	JBQ	0.0577	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.157	JQ	0.122	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.138	JQ	0.130	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	5.23	JB	0.0819	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-022-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:30:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.48	JBQ	0.102	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.353	JQ	0.0763	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.322	JQ	0.0754	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0960	JQ	0.0878	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.68	J	0.138	MDL	5.23	PQL	ng/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.71	JB	0.0423	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.161	JBQ	0.0630	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0862	JBQ	0.0771	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.183	JQ	0.0568	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.282	JQ	0.0752	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.152	JQ	0.0459	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.252	JQ	0.0716	MDL	5.17	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method Category: SVOA

Method: 1613B **Matrix: SO**

Sample ID: SL-023-SA6-SB-0.0-1.0 *Collected:* 8/5/2011 10:00:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.114	JQ	0.0669	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.522	J	0.0488	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.196	JQ	0.0567	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.198	JBQ	0.0465	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.106	JQ	0.100	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-024-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 2:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.355	JBQ	0.0619	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.108	JB	0.0250	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0710	JB	0.0326	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.169	JBQ	0.0502	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.158	JQ	0.0342	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.170	JQ	0.0517	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.209	J	0.0318	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.221	JQ	0.0501	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.184	JB	0.0303	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.317	JQ	0.0622	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.312	JQ	0.0386	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0956	JQ	0.0317	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.409	JB	0.0356	MDL	5.39	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.149	J	0.104	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.120	JQ	0.0810	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	1.21	JB	0.0457	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.228	JBQ	0.0652	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-024-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.83	JB	0.0794	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.412	JB	0.0300	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0783	JBQ	0.0484	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.103	JBQ	0.0581	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.129	JQ	0.0594	MDL	5.52	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory:** LL

EDD Filename: DX125_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-024-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 2:55:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0548	JQ	0.0368	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.110	JQ	0.0568	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0652	JBQ	0.0364	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0409	JQ	0.0364	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0827	JQ	0.0392	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.118	JBQ	0.0392	MDL	5.52	PQL	ng/Kg	U	B
OCDF	1.08	JB	0.0666	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-025-SA6-SB-4.0-5.0 *Collected:* 8/4/2011 9:00:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.349	JB	0.0672	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0725	JBQ	0.0238	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0477	JQ	0.0321	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0550	JBQ	0.0316	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0485	JQ	0.0413	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0753	JBQ	0.0373	MDL	5.32	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0981	JQ	0.0910	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	3.03	JB	0.0383	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.123	JBQ	0.0675	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-025-SA6-SB-9.0-10.0 *Collected:* 8/4/2011 9:05:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.348	JBQ	0.0683	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0625	JBQ	0.0305	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0394	JQ	0.0311	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0782	JQ	0.0489	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0667	JB	0.0357	MDL	5.45	PQL	ng/Kg	U	B
OCDD	0.822	JBQ	0.0476	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.158	JBQ	0.0661	MDL	10.9	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory:** LL

EDD Filename: DX125_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-060-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 11:32:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.882	JBQ	0.0669	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JBQ	0.0191	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.111	JBQ	0.0357	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0699	JBQ	0.0505	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0990	J	0.0677	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.131	JQ	0.0477	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.108	JQ	0.0572	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.112	JQ	0.0457	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.155	JBQ	0.0583	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0977	JQ	0.0428	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.103	J	0.0618	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0635	JB	0.0440	MDL	5.03	PQL	ng/Kg	U	B
OCDD	9.27	JB	0.0567	MDL	10.1	PQL	ng/Kg	J	Z
OCDF	0.388	JBQ	0.0676	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-060-SA5DN-SB-7.0-8.0 *Collected:* 8/5/2011 1:05:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.529	JB	0.0693	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0815	JBQ	0.0237	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0646	JBQ	0.0410	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0519	JQ	0.0461	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0781	JQ	0.0535	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0929	JBQ	0.0405	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0891	JBQ	0.0427	MDL	5.72	PQL	ng/Kg	U	B
OCDD	4.62	JB	0.0424	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.350	JBQ	0.0838	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-114-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 3:05:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.443	JB	0.0714	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0830	JB	0.0256	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0852	JQ	0.0377	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0925	J	0.0515	MDL	5.27	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX125 Laboratory: LL

EDD Filename: DX125_v1 eQAPP Name: CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-114-SA6-SB-4.0-5.0 *Collected:* 8/5/2011 3:05:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0316	JQ	0.0305	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.187	J	0.0496	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0780	JBQ	0.0376	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.184	J	0.0731	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.167	JQ	0.0384	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0513	J	0.0352	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.160	JBQ	0.0377	MDL	5.27	PQL	ng/Kg	U	B
OCDD	0.935	JBQ	0.0571	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.156	JBQ	0.0858	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-114-SA6-SB-9.0-10.0 *Collected:* 8/5/2011 3:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.222	JB	0.0670	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0777	JBQ	0.0246	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0485	JBQ	0.0399	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0397	JQ	0.0310	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0860	J	0.0496	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0716	J	0.0268	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0595	JQ	0.0465	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0420	JBQ	0.0254	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0870	J	0.0647	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.199	JQ	0.0453	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0710	JQ	0.0264	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.101	JBQ	0.0447	MDL	5.50	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.110	JQ	0.0773	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.733	JBQ	0.0437	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.127	JBQ	0.0770	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.13	JB	0.0392	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.111	JB	0.0760	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.222	JBQ	0.0738	MDL	5.80	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory:** LL

EDD Filename: DX125_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: SVOA

Method: 1613B **Matrix:** SO

Sample ID: SL-198-SA5DN-SB-4.0-5.0 *Collected:* 8/5/2011 8:49:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.211	JQ	0.0769	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.636	J	0.0755	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JQ	0.0620	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.882	JQ	0.0738	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.982	JB	0.0757	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.130	J	0.0686	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.752	J	0.0430	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.140	J	0.0699	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.161	JBQ	0.0440	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.143	JQ	0.0879	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	5.79	JB	0.0773	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-9.0-10.0 *Collected:* 8/5/2011 9:13:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.34	JB	0.0378	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.189	JBQ	0.0808	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0875	JQ	0.0564	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.200	JQ	0.0683	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0874	JQ	0.0438	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.194	JQ	0.0648	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.145	JQ	0.0502	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0592	JB	0.0357	MDL	5.33	PQL	ng/Kg	U	B
OCDF	4.33	JBQ	0.0921	MDL	10.7	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX125

Method Blank Outlier Report

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2300B371838	8/19/2011 6:38:00 PM	1,2,3,4,6,7,8-HPCDD	0.238 ng/Kg	DUP11-SA6-QC-080411
		1,2,3,4,6,7,8-HPCDF	0.0694 ng/Kg	SL-006-SA6-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0615 ng/Kg	SL-006-SA6-SB-9.0-10.0
		1,2,3,4,7,8-HxCDD	0.103 ng/Kg	SL-010-SA6-SB-4.0-5.0
		1,2,3,7,8,9-HXCDF	0.0418 ng/Kg	SL-014-SA6-SB-4.0-5.0
		2,3,4,7,8-PECDF	0.0660 ng/Kg	SL-014-SA6-SB-9.0-10.0
		OCDD	0.596 ng/Kg	SL-019-SA6-SB-4.0-5.0
		OCDF	0.136 ng/Kg	SL-019-SA6-SB-9.0-10.0
				SL-022-SA6-SB-0.0-1.0
				SL-023-SA6-SB-0.0-1.0
				SL-024-SA6-SB-4.0-5.0
				SL-024-SA6-SB-9.0-10.0
				SL-025-SA6-SB-4.0-5.0
				SL-025-SA6-SB-9.0-10.0
				SL-060-SA5DN-SB-4.0-5.0
				SL-060-SA5DN-SB-7.0-8.0
				SL-114-SA6-SB-4.0-5.0
				SL-114-SA6-SB-9.0-10.0
				SL-198-SA5DN-SB-4.0-5.0
				SL-198-SA5DN-SB-9.0-10.0

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP11-SA6-QC-080411(RES)	1,2,3,4,7,8-HxCDD	0.270 ng/Kg	0.270U ng/Kg
DUP11-SA6-QC-080411(RES)	1,2,3,7,8,9-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.363 ng/Kg	0.363U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0438 ng/Kg	0.0438U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0503 ng/Kg	0.0503U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0454 ng/Kg	0.0454U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	OCDD	0.691 ng/Kg	0.691U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	OCDF	0.119 ng/Kg	0.119U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.488 ng/Kg	0.488U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0721 ng/Kg	0.0721U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	OCDD	1.11 ng/Kg	1.11U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	OCDF	0.205 ng/Kg	0.205U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.330 ng/Kg	0.330U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0907 ng/Kg	0.0907U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0482 ng/Kg	0.0482U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	OCDF	0.106 ng/Kg	0.106U ng/Kg
SL-014-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-014-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.268 ng/Kg	0.268U ng/Kg
SL-014-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.188 ng/Kg	0.188U ng/Kg
SL-019-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.230 ng/Kg	0.230U ng/Kg
SL-019-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.153 ng/Kg	0.153U ng/Kg
SL-019-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-023-SA6-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.161 ng/Kg	0.161U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-023-SA6-SB-0.0-1.0(RES)	1,2,3,4,7,8-HxCDD	0.0862 ng/Kg	0.0862U ng/Kg
SL-023-SA6-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.198 ng/Kg	0.198U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.355 ng/Kg	0.355U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0710 ng/Kg	0.0710U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.169 ng/Kg	0.169U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.184 ng/Kg	0.184U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	OCDF	0.228 ng/Kg	0.228U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0783 ng/Kg	0.0783U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0652 ng/Kg	0.0652U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.118 ng/Kg	0.118U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.349 ng/Kg	0.349U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0753 ng/Kg	0.0753U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	OCDF	0.123 ng/Kg	0.123U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.348 ng/Kg	0.348U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	OCDD	0.822 ng/Kg	0.822U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	OCDF	0.158 ng/Kg	0.158U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.882 ng/Kg	0.882U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0699 ng/Kg	0.0699U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0635 ng/Kg	0.0635U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	OCDF	0.388 ng/Kg	0.388U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.529 ng/Kg	0.529U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0815 ng/Kg	0.0815U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0646 ng/Kg	0.0646U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0929 ng/Kg	0.0929U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0891 ng/Kg	0.0891U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	OCDF	0.350 ng/Kg	0.350U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.443 ng/Kg	0.443U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0780 ng/Kg	0.0780U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.160 ng/Kg	0.160U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-114-SA6-SB-4.0-5.0(RES)	OCDD	0.935 ng/Kg	0.935U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	OCDF	0.156 ng/Kg	0.156U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.222 ng/Kg	0.222U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0777 ng/Kg	0.0777U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	OCDD	0.733 ng/Kg	0.733U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.222 ng/Kg	0.222U ng/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.161 ng/Kg	0.161U ng/Kg
SL-198-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,6,9-HPCDF	0.189 ng/Kg	0.189U ng/Kg
SL-198-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0592 ng/Kg	0.0592U ng/Kg

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
SL-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (SL-019-SA6-SB-4.0-5.0)	OCDD	185	301	40.00-135.00	-	OCDD	No Qual, >4x

Field Duplicate RPD Report

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
MOISTURE	8.8	8.4	5		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
1,2,3,4,6,7,8-HPCDD	59.5	84.1	34	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	10.1	11.2	10	50.00	
1,2,3,4,7,8,9-HPCDF	1.54	2.05	28	50.00	
1,2,3,4,7,8-HxCDD	0.230	0.270	16	50.00	
1,2,3,6,7,8-HXCDD	1.79	2.23	22	50.00	
1,2,3,7,8,9-HXCDD	0.553	0.602	8	50.00	
1,2,3,7,8-PECDD	0.170	0.148	14	50.00	
2,3,4,6,7,8-HXCDF	1.52	0.967	44	50.00	
1,2,3,4,7,8-HXCDF	8.24	0.928	160	50.00	J(all detects)
1,2,3,6,7,8-HXCDF	2.63	0.798	107	50.00	
1,2,3,7,8,9-HXCDF	0.717	0.189	117	50.00	
1,2,3,7,8-PECDF	1.69	0.755	76	50.00	
2,3,4,7,8-PECDF	3.13	0.603	135	50.00	
2,3,7,8-TCDF	1.79	0.274	147	50.00	
OCDD	1060	1990	61	50.00	
OCDF	14.7	25.2	53	50.00	

Reporting Limit Outliers

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA6-QC-080411	1,2,3,4,7,8,9-HPCDF	JB	2.05	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.270	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.928	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.23	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.798	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.602	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.189	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.148	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.755	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.967	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.603	5.41	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.274	1.08	PQL	ng/Kg	
SL-006-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.363	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0438	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0814	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0770	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0503	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0454	5.44	PQL	ng/Kg	
	OCDD	JB	0.691	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.119	10.9	PQL	ng/Kg	
SL-006-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.488	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0850	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0465	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.253	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0651	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.437	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.588	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0975	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0721	5.63	PQL	ng/Kg	
	OCDD	JB	1.11	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.205	11.3	PQL	ng/Kg	
SL-010-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.330	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0907	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0765	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0506	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0469	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0612	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0482	5.58	PQL	ng/Kg	
	OCDD	JBQ	1.09	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.106	11.2	PQL	ng/Kg	
SL-014-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.09	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.920	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.452	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.933	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.311	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.302	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.101	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	1.67	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.293	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.268	5.51	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.185	1.10	PQL	ng/Kg	
	OCDF	JB	9.75	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JBQ	1.22	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.188	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.684	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.00	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.354	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.721	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.213	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.150	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.843	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.553	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.383	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.356	1.10	PQL	ng/Kg	
SL-019-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.54	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.230	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	1.79	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	2.63	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.553	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.717	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.170	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.69	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	1.52	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.13	5.41	PQL	ng/Kg	
SL-019-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	2.18	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.480	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.153	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.346	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.650	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.328	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.300	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.120	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.338	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.613	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.370	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.430	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.157	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.138	1.10	PQL	ng/Kg	
	OCDF	JB	5.23	11.0	PQL	ng/Kg	
SL-022-SA6-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JBQ	3.48	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDD	JQ	0.353	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.322	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0960	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	4.68	5.23	PQL	ng/Kg	
SL-023-SA6-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDF	JB	2.71	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.161	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0862	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.183	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.282	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.152	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.252	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.114	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.522	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.196	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.198	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.106	1.03	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.355	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.108	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0710	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.169	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.158	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.170	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.209	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.221	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.184	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.317	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.312	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0956	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.409	5.39	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.149	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.120	1.08	PQL	ng/Kg	
	OCDD	JB	1.21	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.228	10.8	PQL	ng/Kg	
SL-024-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.83	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.412	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0783	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.103	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.129	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0548	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.110	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0652	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0409	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0827	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.118	5.52	PQL	ng/Kg	
	OCDF	JB	1.08	11.0	PQL	ng/Kg	
SL-025-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.349	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0725	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0477	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0550	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0485	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0753	5.32	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0981	1.06	PQL	ng/Kg	
	OCDD	JB	3.03	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.123	10.6	PQL	ng/Kg	
SL-025-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.348	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0625	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0394	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0782	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0667	5.45	PQL	ng/Kg	
	OCDD	JBQ	0.822	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.158	10.9	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**

Matrix: **SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.882	5.03	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.166	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.111	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0699	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.0990	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.131	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.108	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.112	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.155	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0977	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.103	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0635	5.03	PQL	ng/Kg	
	OCDD	JB	9.27	10.1	PQL	ng/Kg	
	OCDF	JBQ	0.388	10.1	PQL	ng/Kg	
SL-060-SA5DN-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.529	5.72	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0815	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0646	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0519	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0781	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JBQ	0.0929	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0891	5.72	PQL	ng/Kg	
	OCDD	JB	4.62	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.350	11.4	PQL	ng/Kg	
SL-114-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.443	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0830	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0852	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0925	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0316	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.187	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0780	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.184	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.167	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0513	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.160	5.27	PQL	ng/Kg	
	OCDD	JBQ	0.935	10.5	PQL	ng/Kg	
	OCDF	JBQ	0.156	10.5	PQL	ng/Kg	
SL-114-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.222	5.50	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0777	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0485	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0397	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0860	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.0716	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.0595	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0420	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	J	0.0870	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.199	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0710	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.101	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.110	1.10	PQL	ng/Kg	
	OCDD	JBQ	0.733	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.127	11.0	PQL	ng/Kg	

Reporting Limit Outliers

Lab Reporting Batch ID: DX125 **Laboratory: LL**

EDD Filename: DX125_v1 **eQAPP Name: CDM_SSFL_110509**

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.13	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.111	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.222	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.211	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.636	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.147	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.882	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.982	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.130	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.752	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.140	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.161	5.80	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.143	1.16	PQL	ng/Kg	
	OCDF	JB	5.79	11.6	PQL	ng/Kg	
SL-198-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.34	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.189	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0875	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.200	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0874	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.194	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.145	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0592	5.33	PQL	ng/Kg	
	OCDF	JBQ	4.33	10.7	PQL	ng/Kg	

SAMPLE DELIVERY GROUP

DX126

Attachment I

Sample ID Cross Reference and Data Review Level

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369644	N	METHOD	1613B	IV
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369645	N	METHOD	1613B	IV
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369642	N	METHOD	1613B	IV
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369643	N	METHOD	1613B	IV
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369641	N	METHOD	1613B	IV
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369646	N	METHOD	1613B	IV
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369647	N	METHOD	1613B	IV
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371379	N	METHOD	1613B	IV
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371383	N	METHOD	1613B	IV
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371384	N	METHOD	1613B	IV
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371378	N	METHOD	1613B	IV
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371382	N	METHOD	1613B	IV
09-Aug-2011	EB-SA6-SB-080911	6371381	EB	METHOD	1613B	IV
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371380	N	METHOD	1613B	IV
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371385	N	METHOD	1613B	IV
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371386	MS	METHOD	1613B	IV
09-Aug-2011	DUP24-SA5DN-QC-080911	6371389	FD	METHOD	1613B	IV
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371388	N	METHOD	1613B	IV

III = EPA Level 3 Data Review *N = Normal Sample* *TB = Trip Blank* *MS = Matrix Spike*
IV = EPA Level 4 Data Validation *FD = Field Duplicate* *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment II

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** AQ

Sample ID: EB-SA6-SB-080911 *Collected:* 8/9/2011 1:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.38	JB	0.137	MDL	9.59	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.650	JB	0.0665	MDL	9.59	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.550	JBQ	0.0789	MDL	9.59	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.216	JBQ	0.0682	MDL	9.59	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.366	JBQ	0.116	MDL	9.59	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.223	JBQ	0.0665	MDL	9.59	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.452	JBQ	0.115	MDL	9.59	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.238	JBQ	0.115	MDL	9.59	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.163	JBQ	0.0657	MDL	9.59	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.162	JBQ	0.0603	MDL	9.59	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.292	JBQ	0.0549	MDL	9.59	PQL	pg/L	U	B
2,3,7,8-TCDD	0.344	JBQ	0.112	MDL	1.92	PQL	pg/L	U	B
OCDD	7.99	JBQ	0.139	MDL	19.2	PQL	pg/L	U	B
OCDF	1.02	JB	0.121	MDL	19.2	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.699	JB	0.0455	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JB	0.0220	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0441	JBQ	0.0279	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0520	JQ	0.0365	MDL	5.51	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0763	JBQ	0.0255	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0589	JBQ	0.0366	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0357	JBQ	0.0231	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0440	JB	0.0355	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0396	JQ	0.0195	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.140	JBQ	0.0519	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0543	JQ	0.0257	MDL	5.51	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0279	JBQ	0.0201	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.121	JQ	0.0258	MDL	5.51	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: DUP24-SA5DN-QC-080911 *Collected:* 8/9/2011 3:28:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	4.76	JB	0.0378	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.273	JQ	0.0532	MDL	11.0	PQL	ng/Kg	J	Z, FD

Sample ID: SL-009-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 3:25:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.555	JBQ	0.0646	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0752	JB	0.0263	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0371	U	0.0371	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HxCDD	0.0410	U	0.0410	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0284	U	0.0284	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDD	0.0715	JBQ	0.0427	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0234	U	0.0234	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,7,8,9-HXCDD	0.0813	JB	0.0427	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0413	J	0.0222	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0639	U	0.0639	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.125	JQ	0.0371	MDL	5.51	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0278	JBQ	0.0224	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.100	J	0.0360	MDL	5.51	PQL	ng/Kg	J	Z
OCDD	4.04	JB	0.0486	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.140	JQ	0.0598	MDL	11.0	PQL	ng/Kg	J	Z, FD

Sample ID: SL-009-SA5DN-SB-9.0-10.0 *Collected:* 8/9/2011 4:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.08	JBQ	0.0626	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.187	JBQ	0.0296	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.127	JQ	0.0408	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.135	JB	0.0317	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.194	JBQ	0.0401	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.129	JB	0.0413	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0954	JQ	0.0253	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.277	JB	0.0557	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.221	JQ	0.0311	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.142	JBQ	0.0245	MDL	5.56	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX126 **Laboratory:** LL

EDD Filename: DX126_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-009-SA5DN-SB-9.0-10.0 *Collected:* 8/9/2011 4:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.186	J	0.0277	MDL	5.56	PQL	ng/Kg	J	Z
OCDD	9.81	JB	0.0374	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.381	J	0.0506	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-011-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 11:40:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.429	JB	0.0674	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0885	JBQ	0.0261	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0521	JQ	0.0507	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0755	JBQ	0.0494	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0752	JBQ	0.0478	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0395	JBQ	0.0287	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0642	JQ	0.0344	MDL	5.60	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.105	J	0.102	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	3.03	JB	0.0524	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.225	JQ	0.0789	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-4.0-5.0 *Collected:* 8/9/2011 8:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.13	JB	0.0689	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.148	JB	0.0320	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.102	JB	0.0456	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.108	JBQ	0.0445	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.104	JQ	0.0308	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0749	JBQ	0.0631	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0624	JQ	0.0356	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0374	JQ	0.0343	MDL	5.04	PQL	ng/Kg	J	Z
OCDD	8.10	JB	0.0548	MDL	10.1	PQL	ng/Kg	J	Z
OCDF	0.534	J	0.0791	MDL	10.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX126 **Laboratory:** LL

EDD Filename: DX126_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-012-SA5DN-SB-9.0-10.0 *Collected:* 8/9/2011 9:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.913	JB	0.0508	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.110	JB	0.0221	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0600	JBQ	0.0364	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0380	JBQ	0.0287	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0236	JBQ	0.0236	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0566	JBQ	0.0387	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0363	JQ	0.0274	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0404	JQ	0.0328	MDL	5.80	PQL	ng/Kg	J	Z
OCDD	6.21	JB	0.0457	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.182	JQ	0.0643	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-031-SA6-SB-4.0-5.0 *Collected:* 8/8/2011 2:50:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.459	JBQ	0.0648	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.209	JBQ	0.0230	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0388	JB	0.0364	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0585	JQ	0.0531	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.106	JBQ	0.0472	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.197	JBQ	0.0537	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.101	JBQ	0.0398	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.316	JBQ	0.0510	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.232	J	0.0400	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.155	JBQ	0.0731	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.273	JQ	0.0410	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0634	JB	0.0357	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.216	J	0.0411	MDL	5.28	PQL	ng/Kg	J	Z
OCDD	2.31	JB	0.0460	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.448	JQ	0.0752	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-031-SA6-SB-9.0-10.0 *Collected:* 8/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.321	JBQ	0.0577	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0700	JBQ	0.0202	MDL	5.44	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-031-SA6-SB-9.0-10.0 *Collected:* 8/8/2011 3:00:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0586	JB	0.0317	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.189	JBQ	0.0413	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.227	JB	0.0420	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.190	JBQ	0.0338	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.282	JBQ	0.0406	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.224	J	0.0310	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.333	JB	0.0681	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.300	J	0.0364	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0811	JBQ	0.0300	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.280	JQ	0.0368	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0974	JQ	0.0824	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	1.45	JB	0.0385	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.145	J	0.0581	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 9:56:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.451	JBQ	0.0504	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0336	JBQ	0.0252	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.305	JBQ	0.0497	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0525	JBQ	0.0328	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.938	JB	0.0485	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.231	J	0.0262	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.134	JB	0.0759	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.117	J	0.0347	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0338	JBQ	0.0242	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0695	JQ	0.0345	MDL	5.28	PQL	ng/Kg	J	Z
OCDD	1.71	JBQ	0.0367	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.152	J	0.0654	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-044-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 8:09:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.73	JB	0.0571	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0642	JBQ	0.0572	MDL	5.93	PQL	ng/Kg	U	B

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-044-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 8:09:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.221	JBQ	0.0912	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.626	JB	0.0731	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.160	JBQ	0.0721	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.420	JBQ	0.0701	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.122	JBQ	0.0700	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0862	JQ	0.0370	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.177	JBQ	0.0384	MDL	5.93	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0891	J	0.0342	MDL	5.93	PQL	ng/Kg	J	Z
OCDF	2.00	J	0.0700	MDL	11.9	PQL	ng/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5 *Collected:* 8/9/2011 2:15:00 PM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.596	JBQ	0.0565	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0463	JB	0.0213	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.153	JBQ	0.0492	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0324	JBQ	0.0274	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.318	JB	0.0467	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0880	JQ	0.0296	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0684	JBQ	0.0615	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0455	J	0.0336	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0657	JQ	0.0326	MDL	5.34	PQL	ng/Kg	J	Z
OCDD	1.49	JBQ	0.0521	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.126	J	0.0722	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-083-SA5DN-SB-4.0-5.0 *Collected:* 8/8/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.91	JB	0.0637	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.190	JB	0.0151	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0449	JQ	0.0342	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0584	JQ	0.0424	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0504	JBQ	0.0251	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.191	JBQ	0.0445	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.231	JBQ	0.0444	MDL	5.56	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-083-SA5DN-SB-4.0-5.0 *Collected:* 8/8/2011 11:45:00 *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0701	JBQ	0.0314	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.111	JBQ	0.0298	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0369	JBQ	0.0237	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0869	JBQ	0.0288	MDL	5.56	PQL	ng/Kg	U	B
OCDF	0.751	J	0.0753	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-4.0-5.0 *Collected:* 8/8/2011 8:34:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.195	JB	0.0709	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0366	JBQ	0.0313	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.271	JBQ	0.0578	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.383	JBQ	0.0555	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.849	J	0.0380	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.109	J	0.0475	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0387	JBQ	0.0373	MDL	5.67	PQL	ng/Kg	U	B
OCDD	0.939	JB	0.0493	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-153-SA5DN-SB-7.0-8.0 *Collected:* 8/8/2011 9:50:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.344	JB	0.0541	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0684	JBQ	0.0206	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0970	JQ	0.0529	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0418	JBQ	0.0386	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0802	JBQ	0.0517	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.149	JQ	0.0273	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0512	JQ	0.0371	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0619	J	0.0371	MDL	5.55	PQL	ng/Kg	J	Z
OCDD	0.999	JB	0.0421	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.141	JQ	0.0637	MDL	11.1	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Project Name and Number: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

Data Qualifier Summary

Lab Reporting Batch ID: DX126 **Laboratory:** LL

EDD Filename: DX126_v1 **eQAPP Name:** CDM_SSFL_110509

Method Category: GENCHEM

Method: 1613B **Matrix:** SO

Sample ID: SL-273-SA6-SB-4.0-5.0 *Collected:* 8/8/2011 8:20:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.402	JB	0.0617	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0392	JB	0.0244	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0470	JBQ	0.0338	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0695	JBQ	0.0496	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0470	JBQ	0.0274	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0550	JQ	0.0285	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0845	JQ	0.0398	MDL	5.25	PQL	ng/Kg	J	Z
OCDD	0.616	JBQ	0.0383	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.183	JQ	0.0677	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-273-SA6-SB-9.0-10.0 *Collected:* 8/8/2011 8:30:00 AM *Analysis Type:* RES *Dilution:* 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.478	JB	0.0663	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.131	JBQ	0.0247	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0495	JB	0.0352	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.109	JBQ	0.0541	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0856	JBQ	0.0370	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.226	JBQ	0.0528	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.129	J	0.0353	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0992	JQ	0.0389	MDL	5.65	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0332	JBQ	0.0296	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0772	JQ	0.0389	MDL	5.65	PQL	ng/Kg	J	Z
OCDD	1.09	JBQ	0.0381	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.228	JQ	0.0748	MDL	11.3	PQL	ng/Kg	J	Z

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

Reason Code Legend

Reason Code	*Description*
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Laboratory Triplicate Precision
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation
L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection

* denotes a non-reportable result

Data Qualifier Summary

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

R	Continuing Calibration Verification Percent Recovery Lower Estimation
R	Continuing Calibration Verification Percent Recovery Lower Rejection
R	Continuing Calibration Verification Percent Recovery Upper Estimation
R	Continuing Calibration Verification Percent Recovery Upper Rejection
R	Continuing Calibration Verification Relative Response Factor
R	Initial Calibration Relative Response Factor
R	Initial Calibration Verification Percent Recovery Lower Estimation
R	Initial Calibration Verification Percent Recovery Lower Rejection
R	Initial Calibration Verification Percent Recovery Upper Estimation
R	Initial Calibration Verification Percent Recovery Upper Rejection
R	Initial Calibration Verification Relative Response Factor
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

* denotes a non-reportable result

Enclosure I

Level III ADR Outliers
(including Manual Review Outliers)

Quality Control
Outlier Reports

DX126

Method Blank Outlier Report

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method: 1613B
Matrix: AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2240B371404	8/16/2011 2:04:00 PM	1,2,3,4,6,7,8-HPCDD	3.99 pg/L	EB-SA6-SB-080911
		1,2,3,4,6,7,8-HPCDF	0.817 pg/L	
		1,2,3,4,7,8,9-HPCDF	0.551 pg/L	
		1,2,3,4,7,8-HxCDD	0.200 pg/L	
		1,2,3,4,7,8-HXCDF	0.405 pg/L	
		1,2,3,6,7,8-HXCDD	0.373 pg/L	
		1,2,3,6,7,8-HXCDF	0.218 pg/L	
		1,2,3,7,8,9-HXCDD	0.458 pg/L	
		1,2,3,7,8,9-HXCDF	0.595 pg/L	
		1,2,3,7,8-PECDD	0.437 pg/L	
		1,2,3,7,8-PECDF	0.280 pg/L	
		2,3,4,6,7,8-HXCDF	0.268 pg/L	
		2,3,4,7,8-PECDF	0.450 pg/L	
		2,3,7,8-TCDD	0.457 pg/L	
		2,3,7,8-TCDF	0.139 pg/L	
		OCDD	8.97 pg/L	
		OCDF	1.57 pg/L	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-080911(RES)	1,2,3,4,6,7,8-HPCDD	4.38 pg/L	4.38U pg/L
EB-SA6-SB-080911(RES)	1,2,3,4,6,7,8-HPCDF	0.650 pg/L	0.650U pg/L
EB-SA6-SB-080911(RES)	1,2,3,4,7,8,9-HPCDF	0.550 pg/L	0.550U pg/L
EB-SA6-SB-080911(RES)	1,2,3,4,7,8-HXCDF	0.216 pg/L	0.216U pg/L
EB-SA6-SB-080911(RES)	1,2,3,6,7,8-HXCDD	0.366 pg/L	0.366U pg/L
EB-SA6-SB-080911(RES)	1,2,3,6,7,8-HXCDF	0.223 pg/L	0.223U pg/L
EB-SA6-SB-080911(RES)	1,2,3,7,8,9-HXCDD	0.452 pg/L	0.452U pg/L
EB-SA6-SB-080911(RES)	1,2,3,7,8-PECDD	0.238 pg/L	0.238U pg/L
EB-SA6-SB-080911(RES)	1,2,3,7,8-PECDF	0.163 pg/L	0.163U pg/L
EB-SA6-SB-080911(RES)	2,3,4,6,7,8-HXCDF	0.162 pg/L	0.162U pg/L
EB-SA6-SB-080911(RES)	2,3,4,7,8-PECDF	0.292 pg/L	0.292U pg/L
EB-SA6-SB-080911(RES)	2,3,7,8-TCDD	0.344 pg/L	0.344U pg/L
EB-SA6-SB-080911(RES)	OCDD	7.99 pg/L	7.99U pg/L
EB-SA6-SB-080911(RES)	OCDF	1.02 pg/L	1.02U pg/L

Method: 1613B
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2310B371554	8/22/2011 3:54:00 PM	1,2,3,4,6,7,8-HPCDD	0.206 ng/Kg	DUP24-SA5DN-QC-080911
		1,2,3,4,6,7,8-HPCDF	0.0461 ng/Kg	SL-009-SA5DN-SB-4.0-5.0
		1,2,3,4,7,8,9-HPCDF	0.0425 ng/Kg	SL-009-SA5DN-SB-9.0-10.0
		1,2,3,4,7,8-HXCDF	0.0624 ng/Kg	SL-011-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDD	0.0497 ng/Kg	SL-012-SA5DN-SB-4.0-5.0
		1,2,3,6,7,8-HXCDF	0.0816 ng/Kg	SL-012-SA5DN-SB-9.0-10.0
		1,2,3,7,8,9-HXCDD	0.0511 ng/Kg	SL-031-SA6-SB-4.0-5.0
		1,2,3,7,8-PECDD	0.0911 ng/Kg	SL-031-SA6-SB-9.0-10.0
		2,3,4,6,7,8-HXCDF	0.0440 ng/Kg	SL-042-SA6-SB-2.5-3.5
		OCDD	0.280 ng/Kg	SL-044-SA6-SB-2.5-3.5
				SL-049-SA6-SB-2.5-3.5
				SL-153-SA5DN-SB-4.0-5.0
				SL-153-SA5DN-SB-7.0-8.0
				SL-273-SA6-SB-4.0-5.0
				SL-273-SA6-SB-9.0-10.0

Method Blank Outlier Report

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2380B370305	8/30/2011 3:05:00 AM	1,2,3,4,6,7,8-HPCDD	0.236 ng/Kg	SL-083-SA5DN-SB-4.0-5.0
		1,2,3,4,6,7,8-HPCDF	0.0494 ng/Kg	
		1,2,3,4,7,8-HXCDF	0.0519 ng/Kg	
		1,2,3,6,7,8-HXCDD	0.0513 ng/Kg	
		1,2,3,6,7,8-HXCDF	0.0537 ng/Kg	
		1,2,3,7,8,9-HXCDD	0.0428 ng/Kg	
		1,2,3,7,8,9-HXCDF	0.0356 ng/Kg	
		1,2,3,7,8-PECDD	0.0682 ng/Kg	
		1,2,3,7,8-PECDF	0.0365 ng/Kg	
		2,3,4,6,7,8-HXCDF	0.0234 ng/Kg	
		2,3,4,7,8-PECDF	0.0544 ng/Kg	
		OCDD	0.426 ng/Kg	

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,6,7,8-HPCDD	0.699 ng/Kg	0.699U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,7,8,9-HPCDF	0.0441 ng/Kg	0.0441U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,7,8-HXCDF	0.0763 ng/Kg	0.0763U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,6,7,8-HXCDD	0.0589 ng/Kg	0.0589U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,6,7,8-HXCDF	0.0357 ng/Kg	0.0357U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,7,8,9-HXCDD	0.0440 ng/Kg	0.0440U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,7,8-PECDD	0.140 ng/Kg	0.140U ng/Kg
DUP24-SA5DN-QC-080911(RES)	2,3,4,6,7,8-HXCDF	0.0279 ng/Kg	0.0279U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.555 ng/Kg	0.555U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0752 ng/Kg	0.0752U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0715 ng/Kg	0.0715U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0813 ng/Kg	0.0813U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0278 ng/Kg	0.0278U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.187 ng/Kg	0.187U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.194 ng/Kg	0.194U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.129 ng/Kg	0.129U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.277 ng/Kg	0.277U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.429 ng/Kg	0.429U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0885 ng/Kg	0.0885U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0755 ng/Kg	0.0755U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0752 ng/Kg	0.0752U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0395 ng/Kg	0.0395U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.148 ng/Kg	0.148U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.913 ng/Kg	0.913U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.110 ng/Kg	0.110U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0600 ng/Kg	0.0600U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0380 ng/Kg	0.0380U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0236 ng/Kg	0.0236U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0566 ng/Kg	0.0566U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.459 ng/Kg	0.459U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.209 ng/Kg	0.209U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0388 ng/Kg	0.0388U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.197 ng/Kg	0.197U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.155 ng/Kg	0.155U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0634 ng/Kg	0.0634U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.321 ng/Kg	0.321U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0700 ng/Kg	0.0700U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0586 ng/Kg	0.0586U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.227 ng/Kg	0.227U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.333 ng/Kg	0.333U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.451 ng/Kg	0.451U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.134 ng/Kg	0.134U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0338 ng/Kg	0.0338U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0642 ng/Kg	0.0642U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.122 ng/Kg	0.122U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.177 ng/Kg	0.177U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.596 ng/Kg	0.596U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.153 ng/Kg	0.153U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0324 ng/Kg	0.0324U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0684 ng/Kg	0.0684U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.190 ng/Kg	0.190U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0504 ng/Kg	0.0504U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.191 ng/Kg	0.191U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0701 ng/Kg	0.0701U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0369 ng/Kg	0.0369U ng/Kg

Method Blank Outlier Report

Lab Reporting Batch ID: DX126 **Laboratory: LL**

EDD Filename: DX126_v1 **eQAPP Name: CDM_SSFL_110509**

Method: **1613B**
Matrix: **SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
SL-083-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.195 ng/Kg	0.195U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0366 ng/Kg	0.0366U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0387 ng/Kg	0.0387U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	OCDD	0.939 ng/Kg	0.939U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.344 ng/Kg	0.344U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0684 ng/Kg	0.0684U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0418 ng/Kg	0.0418U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0802 ng/Kg	0.0802U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	OCDD	0.999 ng/Kg	0.999U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.402 ng/Kg	0.402U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0695 ng/Kg	0.0695U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	OCDD	0.616 ng/Kg	0.616U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.478 ng/Kg	0.478U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.131 ng/Kg	0.131U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0856 ng/Kg	0.0856U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.226 ng/Kg	0.226U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0332 ng/Kg	0.0332U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg

Field Duplicate RPD Report

Lab Reporting Batch ID: DX126 Laboratory: LL

EDD Filename: DX126_v1 eQAPP Name: CDM_SSFL_110509

Method: 160.3M
Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
MOISTURE	9.8	10.9	11		No Qualifiers Applied

Method: 1613B
Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
1,2,3,4,6,7,8-HPCDD	0.555	0.699	23	50.00	
1,2,3,4,6,7,8-HPCDF	0.0752	0.122	47	50.00	
1,2,3,6,7,8-HXCDD	0.0715	0.0589	19	50.00	
1,2,3,7,8,9-HXCDF	0.0413	0.0396	4	50.00	No Qualifiers Applied
2,3,4,6,7,8-HXCDF	0.0278	0.0279	0	50.00	
2,3,4,7,8-PECDF	0.100	0.121	19	50.00	
OCDD	4.04	4.76	16	50.00	
1,2,3,4,7,8,9-HPCDF	5.51 U	0.0441	200	50.00	
1,2,3,4,7,8-HxCDD	5.51 U	0.0520	200	50.00	
1,2,3,4,7,8-HXCDF	5.51 U	0.0763	200	50.00	
1,2,3,6,7,8-HXCDF	5.51 U	0.0357	200	50.00	J(all detects)
1,2,3,7,8,9-HXCDD	0.0813	0.0440	60	50.00	UJ(all non-detects)
1,2,3,7,8-PECDD	5.51 U	0.140	200	50.00	
1,2,3,7,8-PECDF	0.125	0.0543	79	50.00	
OCDF	0.140	0.273	64	50.00	