

# Data Qualifier Summary

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	<b>Method:</b>	6020	<b>Matrix:</b>	SO
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Sample ID: SL-198-SA5DN-SB-4.0-5.0      Collected: 8/5/2011 8:49:00 AM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.115		0.0157	MDL	0.111	PQL	mg/Kg	J	Q
THALLIUM	0.517		0.0332	MDL	0.111	PQL	mg/Kg	J	Q
VANADIUM	76.6		0.0244	MDL	0.111	PQL	mg/Kg	J	Q
ZINC	107		0.620	MDL	3.32	PQL	mg/Kg	J	E

Sample ID: SL-198-SA5DN-SB-9.0-10.0      Collected: 8/5/2011 9:13:00 AM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0819	J	0.0639	MDL	0.441	PQL	mg/Kg	J	Z, Q

Sample ID: SL-198-SA5DN-SB-9.0-10.0      Collected: 8/5/2011 9:13:00 AM      Analysis Type: REA2      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.221		0.0551	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-198-SA5DN-SB-9.0-10.0      Collected: 8/5/2011 9:13:00 AM      Analysis Type: REA3      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.117	MDL	0.441	PQL	mg/Kg	J	E

Sample ID: SL-198-SA5DN-SB-9.0-10.0      Collected: 8/5/2011 9:13:00 AM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0815	U	0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q
ARSENIC	5.36		0.0881	MDL	0.441	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.683		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.292		0.0485	MDL	0.110	PQL	mg/Kg	J	Q
CHROMIUM	27.2		0.132	MDL	0.441	PQL	mg/Kg	J	Q
COBALT	9.87		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
LEAD	8.65		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E
NICKEL	19.4		0.110	MDL	0.441	PQL	mg/Kg	J	Q
SILVER	0.0482	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q
THALLIUM	0.318		0.0330	MDL	0.110	PQL	mg/Kg	J	Q
VANADIUM	51.2		0.0242	MDL	0.110	PQL	mg/Kg	J	Q
ZINC	59.6		0.617	MDL	3.30	PQL	mg/Kg	J	E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	<b>Method:</b>	7199	<b>Matrix:</b>	SO
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Sample ID: SL-114-SA6-SB-9.0-10.0      Collected: 8/5/2011 3:15:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.80	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0      Collected: 8/5/2011 8:49:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

<b>Method Category:</b>	METALS	<b>Method:</b>	7471A	<b>Matrix:</b>	SO
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Sample ID: SL-022-SA6-SB-0.0-1.0      Collected: 8/5/2011 10:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0189	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0      Collected: 8/5/2011 10:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0574	J	0.0070	MDL	0.0992	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0      Collected: 8/5/2011 3:15:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0212	J	0.0078	MDL	0.110	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0      Collected: 8/5/2011 8:49:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0314	J	0.0076	MDL	0.107	PQL	mg/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-9.0-10.0      Collected: 8/5/2011 9:13:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0120	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	8015M	<b>Matrix:</b>	SO
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Sample ID: SL-114-SA6-SB-4.0-5.0      Collected: 8/5/2011 3:05:00 PM      Analysis Type: REA      Dilution: 1

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

Sample ID: SL-114-SA6-SB-4.0-5.0      Collected: 8/5/2011 3:05:00 PM      Analysis Type: REA2      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.64	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.85	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0      Collected: 8/5/2011 3:15:00 PM      Analysis Type: REA2      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.2	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

<b>Method Category:</b>	SVOA	<b>Method:</b>	8082	<b>Matrix:</b>	SO
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Sample ID: SL-010-SA6-SB-4.0-5.0      Collected: 8/5/2011 8:05:00 AM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1254	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1260	0.44	U	0.44	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1262	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1268	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 5432	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	8082	<b>Matrix:</b>	SO
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Sample ID: SL-060-SA5DN-SB-4.0-5.0      Collected: 8/5/2011 11:32:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.95	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.43	J	0.41	MDL	1.8	PQL	ug/Kg	U	B

Sample ID: SL-114-SA6-SB-4.0-5.0      Collected: 8/5/2011 3:05:00 PM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.56	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA6-SB-9.0-10.0      Collected: 8/5/2011 3:15:00 PM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1221	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1232	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1242	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1248	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
AROCLOR 1254	6.2		0.37	MDL	1.9	PQL	ug/Kg	J	S
AROCLOR 1260	1.5	J	0.43	MDL	1.9	PQL	ug/Kg	UJ	B, S
Aroclor 1262	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 1268	0.37	U	0.37	MDL	1.9	PQL	ug/Kg	UJ	S
Aroclor 5442	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S
Aroclor 5460	1.1	U	1.1	MDL	3.7	PQL	ug/Kg	UJ	S

Sample ID: SL-198-SA5DN-SB-4.0-5.0      Collected: 8/5/2011 8:49:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	3.3	J	1.2	MDL	3.8	PQL	ug/Kg	J	Z

<b>Method Category:</b>	SVOA	<b>Method:</b>	8270C	<b>Matrix:</b>	SO
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Sample ID: SL-023-SA6-SB-0.0-1.0      Collected: 8/5/2011 10:00:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	18	J	17	MDL	350	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C	<b>Matrix:</b> SO

Sample ID: SL-023-SA6-SB-0.0-1.0      Collected: 8/5/2011 10:00:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	32	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-114-SA6-SB-4.0-5.0      Collected: 8/5/2011 3:05:00 PM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	150	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	58	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	32	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C SIM	<b>Matrix:</b> SO

Sample ID: SL-022-SA6-SB-0.0-1.0      Collected: 8/5/2011 10:30:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	4.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0      Collected: 8/5/2011 10:00:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PYRENE	3.9	J	3.5	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-060-SA5DN-SB-7.0-8.0      Collected: 8/5/2011 1:05:00 PM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	1.1	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	1.4	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.94	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	10	J	6.9	MDL	21	PQL	ug/Kg	J	Z
PHENANTHRENE	1.8	J	0.77	MDL	1.9	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C SIM	<b>Matrix:</b> SO

Sample ID: SL-114-SA6-SB-4.0-5.0      Collected: 8/5/2011 3:05:00 PM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	0.83	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	8.1	J	6.4	MDL	19	PQL	ug/Kg	J	Z
FLUORENE	0.95	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
NAPHTHALENE	1.8	J	0.71	MDL	1.8	PQL	ug/Kg	U	B

Sample ID: SL-114-SA6-SB-9.0-10.0      Collected: 8/5/2011 3:15:00 PM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.38	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.90	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	0.99	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.7	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.4	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.3	J	0.74	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-4.0-5.0      Collected: 8/5/2011 8:49:00 AM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.7	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	9.0	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	5.9	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	5.9	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z
PHENANTHRENE	5.5	J	3.9	MDL	9.7	PQL	ug/Kg	J	Z

<b>Method Category:</b>	VOA	
<b>Method:</b>	8015B	<b>Matrix:</b> SO

Sample ID: SL-114-SA6-SB-9.0-10.0      Collected: 8/5/2011 3:15:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	200	J	110	MDL	560	PQL	ug/Kg	J	Z

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# Data Qualifier Summary

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

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Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

11/14/2011 12:03:28 PM

ADR version 1.4.0.111

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DE218

# Method Blank Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22208CB221854	8/12/2011 6:54:00 PM	CALCIUM IRON PHOSPHORUS STRONTIUM TIN	4.37 mg/Kg 4.33 mg/Kg 1.72 mg/Kg 0.0260 mg/Kg 1.56 mg/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-010-SA6-SB-4.0-5.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-022-SA6-SB-0.0-1.0(RES)	TIN	3.37 mg/Kg	3.37U mg/Kg
SL-023-SA6-SB-0.0-1.0(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-114-SA6-SB-4.0-5.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-114-SA6-SB-9.0-10.0(RES)	TIN	3.28 mg/Kg	3.28U mg/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	TIN	3.38 mg/Kg	3.38U mg/Kg
SL-198-SA5DN-SB-9.0-10.0(RES)	TIN	3.04 mg/Kg	3.04U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22226CB221232A	8/15/2011 12:32:00 PM	VANADIUM	0.0247 mg/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

**Method:** 8082  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28289AB241824A	8/24/2011 6:24:00 PM	AROCLOR 1260	0.49 ug/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

# Method Blank Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 8082  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-060-SA5DN-SB-4.0-5.0(RES)	AROCLOR 1260	0.43 ug/Kg	1.8U ug/Kg
SL-114-SA6-SB-9.0-10.0(RES)	AROCLOR 1260	1.5 ug/Kg	1.9U ug/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLD22B260842	8/27/2011 8:42:00 AM	NAPHTHALENE	1.3 ug/Kg	SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-114-SA6-SB-4.0-5.0(RES)	NAPHTHALENE	1.8 ug/Kg	1.8U ug/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 8015M  
**Matrix:** SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-114-SA6-SB-4.0-5.0MS	DIETHYLENE GLYCOL	41	31	59.00-109.00	28 (20.00)	DIETHYLENE GLYCOL	J (all detects) UJ (all non-detects)
SL-114-SA6-SB-4.0-5.0MSD	ETHYLENE GLYCOL	-	52	63.00-107.00	40 (20.00)	ETHYLENE GLYCOL	
(SL-114-SA6-SB-4.0-5.0)	Propylene glycol	-	55	63.00-107.00	42 (20.00)	Propylene glycol	

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-010-SA6-SB-4.0-5.0MS (SL-010-SA6-SB-4.0-5.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0)	FLUORIDE	49	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

# Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-010-SA6-SB-4.0-5.0DUP (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN-SB-4.0-5.0 SL -060-SA5DN-SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN-SB-4.0-5.0 SL -198-SA5DN-SB-9.0-10.0)	Nitrate-NO3	44	20.00	No Qual, OK by Difference

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22226CQ221235A (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN -SB-4.0-5.0 SL -060-SA5DN -SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN -SB-4.0-5.0 SL -198-SA5DN -SB-9.0-10.0)	ANTIMONY	54	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22208CQ221858 (SL-010-SA6-SB-4.0-5.0 SL -022-SA6-SB-0.0-1.0 SL -023-SA6-SB-0.0-1.0 SL -060-SA5DN -SB-4.0-5.0 SL -060-SA5DN -SB-7.0-8.0 SL -114-SA6-SB-4.0-5.0 SL -114-SA6-SB-9.0-10.0 SL -198-SA5DN -SB-4.0-5.0 SL -198-SA5DN -SB-9.0-10.0)	ALUMINUM TITANIUM	121 142	- -	80.00-120.00 80.00-120.00	- -	ALUMINUM TITANIUM	No Qual, SRM within QC Limits

# Surrogate Outlier Report

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 8082

Matrix: SO

<i>Sample ID</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
SL-010-SA6-SB-4.0-5.0	TETRACHLORO-M-XYLENE	27	53.00-139.00	All Target Analytes	J (all detects) UJ (all non-detects)
SL-114-SA6-SB-9.0-10.0	TETRACHLORO-M-XYLENE	43	53.00-139.00	All Target Analytes	J(all detects) UJ(all non-detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA6-SB-4.0-5.0	BORON	J	4.54	5.61	PQL	mg/Kg	J (all detects)
	SODIUM	J	109	112	PQL	mg/Kg	
	TIN	J	3.37	11.2	PQL	mg/Kg	
	Zirconium	J	2.98	5.61	PQL	mg/Kg	
SL-022-SA6-SB-0.0-1.0	BORON	J	4.97	5.05	PQL	mg/Kg	J (all detects)
	TIN	J	3.37	10.1	PQL	mg/Kg	
	Zirconium	J	2.13	5.05	PQL	mg/Kg	
SL-023-SA6-SB-0.0-1.0	BORON	J	3.38	5.12	PQL	mg/Kg	J (all detects)
	SODIUM	J	88.2	102	PQL	mg/Kg	
	TIN	J	2.95	10.2	PQL	mg/Kg	
	Zirconium	J	1.30	5.12	PQL	mg/Kg	
SL-060-SA5DN-SB-4.0-5.0	SODIUM	J	94.5	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.78	10.1	PQL	mg/Kg	
SL-060-SA5DN-SB-7.0-8.0	TIN	J	2.90	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	5.64	5.67	PQL	mg/Kg	
SL-114-SA6-SB-4.0-5.0	BORON	J	4.32	5.33	PQL	mg/Kg	J (all detects)
	TIN	J	2.96	10.7	PQL	mg/Kg	
	Zirconium	J	1.83	5.33	PQL	mg/Kg	
SL-114-SA6-SB-9.0-10.0	TIN	J	3.28	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.59	5.45	PQL	mg/Kg	
SL-198-SA5DN-SB-4.0-5.0	TIN	J	3.38	11.4	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-9.0-10.0	TIN	J	3.04	10.8	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-010-SA6-SB-4.0-5.0	CADMIUM	J	0.0497	0.112	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0695	0.449	PQL	mg/Kg	
	SILVER	J	0.0255	0.112	PQL	mg/Kg	
SL-022-SA6-SB-0.0-1.0	CADMIUM	J	0.0504	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.136	0.420	PQL	mg/Kg	
SL-023-SA6-SB-0.0-1.0	CADMIUM	J	0.0848	0.103	PQL	mg/Kg	J (all detects)
SL-060-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.0923	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0789	0.413	PQL	mg/Kg	
	SILVER	J	0.0514	0.103	PQL	mg/Kg	
SL-060-SA5DN-SB-7.0-8.0	ANTIMONY	J	0.124	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0825	0.454	PQL	mg/Kg	
	SILVER	J	0.0490	0.113	PQL	mg/Kg	
SL-114-SA6-SB-4.0-5.0	CADMIUM	J	0.0779	0.102	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0733	0.406	PQL	mg/Kg	
	SILVER	J	0.0259	0.102	PQL	mg/Kg	
SL-114-SA6-SB-9.0-10.0	ANTIMONY	J	0.0966	0.222	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0790	0.111	PQL	mg/Kg	
	SELENIUM	J	0.223	0.445	PQL	mg/Kg	
SL-198-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.160	0.221	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.251	0.443	PQL	mg/Kg	
SL-198-SA5DN-SB-9.0-10.0	SELENIUM	J	0.0819	0.441	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0482	0.110	PQL	mg/Kg	J (all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 7199  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.80	1.1	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.2	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA6-SB-0.0-1.0	MERCURY	J	0.0189	0.102	PQL	mg/Kg	J (all detects)
SL-023-SA6-SB-0.0-1.0	MERCURY	J	0.0574	0.0992	PQL	mg/Kg	J (all detects)
SL-114-SA6-SB-9.0-10.0	MERCURY	J	0.0212	0.110	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	MERCURY	J	0.0314	0.107	PQL	mg/Kg	J (all detects)
SL-198-SA5DN-SB-9.0-10.0	MERCURY	J	0.0120	0.108	PQL	mg/Kg	J (all detects)

**Method:** 8015B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-9.0-10.0	METHANOL	J	200	560	PQL	ug/Kg	J (all detects)

**Method:** 8015M  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-114-SA6-SB-4.0-5.0	EFH (C21-C30)	J	0.64	1.3	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	0.85	1.3	PQL	mg/Kg	
SL-114-SA6-SB-9.0-10.0	EFH (C21-C30)	J	1.2	1.3	PQL	mg/Kg	J (all detects)

**Method:** 8082  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.95	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.43	1.8	PQL	ug/Kg	
SL-114-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.56	1.8	PQL	ug/Kg	J (all detects)
SL-114-SA6-SB-9.0-10.0	AROCLOR 1260	J	1.5	1.9	PQL	ug/Kg	J (all detects)
SL-198-SA5DN-SB-4.0-5.0	Aroclor 5460	J	3.3	3.8	PQL	ug/Kg	J (all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE218

Laboratory: LL

EDD Filename: DE218\_v1

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-023-SA6-SB-0.0-1.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	350	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	32	170	PQL	ug/Kg	
SL-114-SA6-SB-4.0-5.0	BENZO(A)PYRENE	J	150	180	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	110	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	58	180	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	32	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	110	180	PQL	ug/Kg	

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA6-SB-0.0-1.0	PYRENE	J	4.2	8.8	PQL	ug/Kg	J (all detects)
SL-023-SA6-SB-0.0-1.0	PYRENE	J	3.9	8.7	PQL	ug/Kg	J (all detects)
SL-060-SA5DN-SB-7.0-8.0	BENZO(A)ANTHRACENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	1.4	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.94	1.9	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	10	21	PQL	ug/Kg	
	PHENANTHRENE	J	1.8	1.9	PQL	ug/Kg	
SL-114-SA6-SB-4.0-5.0	2-METHYLNAPHTHALENE	J	0.83	1.8	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.1	19	PQL	ug/Kg	
	FLUORENE	J	0.95	1.8	PQL	ug/Kg	
SL-114-SA6-SB-9.0-10.0	ACENAPHTHYLENE	J	0.38	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.90	1.9	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.99	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.7	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.4	1.9	PQL	ug/Kg	
	PYRENE	J	1.3	1.9	PQL	ug/Kg	
SL-198-SA5DN-SB-4.0-5.0	BENZO(A)ANTHRACENE	J	6.7	9.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	9.0	9.7	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	5.9	9.7	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	5.9	9.7	PQL	ug/Kg	
	PHENANTHRENE	J	5.5	9.7	PQL	ug/Kg	

LDC #: 26533G4

# VALIDATION COMPLETENESS WORKSHEET

SDG #: DE218

ADR

Laboratory: Lancaster Laboratories

Date: 11/2/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} See DE217
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	NA	SKM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

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

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

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples:

Soil

1	SL-010-SA6-SB-4.0-5.0	11	MS	21	31
2	SL-022-SA6-SB-0.0-1.0	12		22	32
3	SL-023-SA6-SB-0.0-1.0	13		23	33
4	SL-114-SA6-SB-4.0-5.0	14		24	34
5	SL-114-SA6-SB-9.0-10.0	15		25	35
6	SL-060-SA5DN-SB-4.0-5.0	16		26	36
7	SL-060-SA5DN-SB-7.0-5.0	17		27	37
8	SL-198-SA5DN-SB-4.0-5.0	18		28	38
9	SL-198-SA5DN-SB-9.0-10.0	19		29	39
10		20		30	40

Notes: \_\_\_\_\_

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)  
 Sample Concentration units, unless otherwise noted: mg/Kg

PB/ICB/CCB QUALIFIED SAMPLES  
 Soil preparation factor applied: 200X  
 Associated Samples: All

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

Reason: B

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Limit	5	6	7	8					
Sb			0.36	0.36	0.097	0.092	0.12	0.16					
Be			0.053	0.053									
Tl			0.095	0.095									
V			0.11	0.11									

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

# **SAMPLE DELIVERY GROUP**

**DE219**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	TB-080811	6369638	TB	5030B	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3050B	6010B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3050B	6020	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3060A	7199	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8015B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8082	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8270C	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	3550B	8270C SIM	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	5035	8015M	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	300.0	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	314.0	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	7471A	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	8015B	III
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369634	N	METHOD	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3050B	6010B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3050B	6020	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3060A	7199	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8015B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8082	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8270C	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	3550B	8270C SIM	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	5035	8015M	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	300.0	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	314.0	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	7471A	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	8015B	III
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369635	N	METHOD	8015M	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3050B	6010B	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3050B	6020	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3060A	7199	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8082	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8270C	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	3550B	8270C SIM	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	300.0	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	314.0	III
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369632	N	METHOD	7471A	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3050B	6010B	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3050B	6020	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3060A	7199	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8082	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8270C	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	3550B	8270C SIM	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	300.0	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	314.0	III
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369633	N	METHOD	7471A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3050B	6010B	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3050B	6020	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3060A	7199	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8082	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8270C	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	3550B	8270C SIM	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	8330	8330A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	300.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369631	N	METHOD	7471A	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0DU	P369631D270814A	DUP	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0DU	P369631D271332B	DUP	METHOD	300.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0MS	P369631R270837A	MS	METHOD	314.0	III
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0MS	P369631R271347B	MS	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3050B	6010B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3050B	6020	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3060A	7199	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8015B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8015M	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8082	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8270C	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	3550B	8270C SIM	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	5035	8015M	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	314.0	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	7471A	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	8015B	III
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369636	N	METHOD	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3050B	6010B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3050B	6020	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3060A	7199	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8015B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8082	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8270C	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	3550B	8270C SIM	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	5035	8015M	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	300.0	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	314.0	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	7471A	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	8015B	III
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369637	N	METHOD	8015M	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM  
**Method:** 300.0 **Matrix:** SO

Sample ID: SL-031-SA6-SB-4.0-5.0      Collected: 8/8/2011 2:50:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0      Collected: 8/8/2011 3:00:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.88	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-083-SA5DN-SB-4.0-5.0      Collected: 8/8/2011 11:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	13.8		0.93	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0      Collected: 8/8/2011 8:34:00 AM      Analysis Type: RES      Dilution: 1

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

Sample ID: SL-153-SA5DN-SB-7.0-8.0      Collected: 8/8/2011 9:50:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.9		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-4.0-5.0      Collected: 8/8/2011 8:20:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.4		0.87	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-9.0-10.0      Collected: 8/8/2011 8:30:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.0		0.90	MDL	1.1	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

11/14/2011 8:15:00 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

**Sample ID:** SL-031-SA6-SB-4.0-5.0

**Collected:** 8/8/2011 2:50:00 PM

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.39	J	0.379	MDL	5.27	PQL	mg/Kg	U	B
MANGANESE	365		0.0379	MDL	0.527	PQL	mg/Kg	J	Q, E
PHOSPHORUS	322		0.369	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	3500		11.9	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	79.7	J	6.27	MDL	105	PQL	mg/Kg	J	Z
TIN	2.31	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.11	J	0.484	MDL	5.27	PQL	mg/Kg	J	Z

**Sample ID:** SL-031-SA6-SB-9.0-10.0

**Collected:** 8/8/2011 3:00:00 PM

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.03	J	0.387	MDL	5.37	PQL	mg/Kg	U	B
MANGANESE	190		0.0387	MDL	0.537	PQL	mg/Kg	J	Q, E
PHOSPHORUS	222		0.376	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2830		12.1	MDL	53.7	PQL	mg/Kg	J	Q
TIN	2.77	J	0.344	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	2.25	J	0.494	MDL	5.37	PQL	mg/Kg	J	Z

**Sample ID:** SL-083-SA5DN-SB-4.0-5.0

**Collected:** 8/8/2011 11:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	406		0.0398	MDL	0.553	PQL	mg/Kg	J	Q, E
PHOSPHORUS	452		0.387	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	3010		12.5	MDL	55.3	PQL	mg/Kg	J	Q
TIN	2.13	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	4.69	J	0.509	MDL	5.53	PQL	mg/Kg	J	Z

**Sample ID:** SL-153-SA5DN-SB-4.0-5.0

**Collected:** 8/8/2011 8:34:00 AM

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.35	J	0.414	MDL	5.75	PQL	mg/Kg	J	Z
MANGANESE	522		0.0414	MDL	0.575	PQL	mg/Kg	J	Q, E
PHOSPHORUS	423		0.403	MDL	11.5	PQL	mg/Kg	J	Q
POTASSIUM	5180		13.0	MDL	57.5	PQL	mg/Kg	J	Q
TIN	3.16	J	0.368	MDL	11.5	PQL	mg/Kg	U	B

\* denotes a non-reportable result

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

11/14/2011 8:15:00 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: SL-153-SA5DN-SB-4.0-5.0      Collected: 8/8/2011 8:34:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	5.34	J	0.529	MDL	5.75	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-7.0-8.0      Collected: 8/8/2011 9:50:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.78	J	0.409	MDL	5.68	PQL	mg/Kg	U	B
MANGANESE	427		0.0409	MDL	0.568	PQL	mg/Kg	J	Q, E
PHOSPHORUS	805		0.398	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3640		12.8	MDL	56.8	PQL	mg/Kg	J	Q
TIN	2.86	J	0.364	MDL	11.4	PQL	mg/Kg	U	B

Sample ID: SL-273-SA6-SB-4.0-5.0      Collected: 8/8/2011 8:20:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.76	J	0.378	MDL	5.25	PQL	mg/Kg	U	B
MANGANESE	247		0.0378	MDL	0.525	PQL	mg/Kg	J	Q, E
PHOSPHORUS	350		0.367	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	2910		11.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.54	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-273-SA6-SB-9.0-10.0      Collected: 8/8/2011 8:30:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.48	J	0.403	MDL	5.60	PQL	mg/Kg	U	B
MANGANESE	255		0.0403	MDL	0.560	PQL	mg/Kg	J	Q, E
PHOSPHORUS	306		0.392	MDL	11.2	PQL	mg/Kg	J	Q
POTASSIUM	2680		12.7	MDL	56.0	PQL	mg/Kg	J	Q
TIN	2.81	J	0.358	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	1.95	J	0.515	MDL	5.60	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

11/14/2011 8:15:00 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-031-SA6-SB-4.0-5.0      Collected: 8/8/2011 2:50:00 PM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.148	J	0.0617	MDL	0.425	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-031-SA6-SB-4.0-5.0      Collected: 8/8/2011 2:50:00 PM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.136	J	0.0787	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.65		0.0851	MDL	0.425	PQL	mg/Kg	J	Q
CHROMIUM	17.5		0.128	MDL	0.425	PQL	mg/Kg	J	E, A
COBALT	6.66		0.0213	MDL	0.106	PQL	mg/Kg	J	E
COPPER	10.9		0.0851	MDL	0.425	PQL	mg/Kg	J	E
LEAD	6.53		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	13.3		0.106	MDL	0.425	PQL	mg/Kg	J	Q, A
SILVER	0.0325	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	35.7		0.0234	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	67.8		0.596	MDL	3.19	PQL	mg/Kg	J	Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0      Collected: 8/8/2011 3:00:00 PM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.212	J	0.0629	MDL	0.434	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-031-SA6-SB-9.0-10.0      Collected: 8/8/2011 3:00:00 PM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.104	J	0.0803	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.33		0.0868	MDL	0.434	PQL	mg/Kg	J	Q
CHROMIUM	19.5		0.130	MDL	0.434	PQL	mg/Kg	J	E, A
COBALT	8.09		0.0217	MDL	0.108	PQL	mg/Kg	J	E
COPPER	11.3		0.0868	MDL	0.434	PQL	mg/Kg	J	E
LEAD	6.37		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, Q
NICKEL	15.2		0.108	MDL	0.434	PQL	mg/Kg	J	Q, A
SILVER	0.0579	J	0.0154	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	39.1		0.0239	MDL	0.108	PQL	mg/Kg	J	E, A
ZINC	67.8		0.607	MDL	3.25	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-083-SA5DN-SB-4.0-5.0      Collected: 8/8/2011 11:45:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0648	MDL	0.447	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-083-SA5DN-SB-4.0-5.0      Collected: 8/8/2011 11:45:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.330		0.0826	MDL	0.223	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.55		0.0893	MDL	0.447	PQL	mg/Kg	J	Q
CHROMIUM	39.0		0.134	MDL	0.447	PQL	mg/Kg	J	E, A
COBALT	13.7		0.0223	MDL	0.112	PQL	mg/Kg	J	E
COPPER	20.1		0.0893	MDL	0.447	PQL	mg/Kg	J	E
LEAD	12.3		0.0114	MDL	0.223	PQL	mg/Kg	J	Q, Q
NICKEL	26.6		0.112	MDL	0.447	PQL	mg/Kg	J	Q, A
SILVER	0.0528	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	73.5		0.0246	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	82.8		0.625	MDL	3.35	PQL	mg/Kg	J	Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0      Collected: 8/8/2011 8:34:00 AM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.236	J	0.0667	MDL	0.460	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-153-SA5DN-SB-4.0-5.0      Collected: 8/8/2011 8:34:00 AM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.328		0.0852	MDL	0.230	PQL	mg/Kg	UJ	Q, B
ARSENIC	8.92		0.0921	MDL	0.460	PQL	mg/Kg	J	Q
CHROMIUM	41.0		0.138	MDL	0.460	PQL	mg/Kg	J	E, A
COBALT	15.3		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	23.1		0.0921	MDL	0.460	PQL	mg/Kg	J	E
LEAD	12.0		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	29.2		0.115	MDL	0.460	PQL	mg/Kg	J	Q, A
SILVER	0.0524	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	75.9		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	97.2		0.644	MDL	3.45	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-153-SA5DN-SB-7.0-8.0      Collected: 8/8/2011 9:50:00 AM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.376	J	0.0659	MDL	0.455	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-153-SA5DN-SB-7.0-8.0      Collected: 8/8/2011 9:50:00 AM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.335		0.0841	MDL	0.227	PQL	mg/Kg	UJ	Q, B
ARSENIC	12.7		0.0909	MDL	0.455	PQL	mg/Kg	J	Q
CHROMIUM	48.7		0.136	MDL	0.455	PQL	mg/Kg	J	E, A
COBALT	14.4		0.0227	MDL	0.114	PQL	mg/Kg	J	E
COPPER	28.2		0.0909	MDL	0.455	PQL	mg/Kg	J	E
LEAD	14.8		0.0116	MDL	0.227	PQL	mg/Kg	J	Q, Q
NICKEL	40.2		0.114	MDL	0.455	PQL	mg/Kg	J	Q, A
VANADIUM	77.2		0.0250	MDL	0.114	PQL	mg/Kg	J	E, A
ZINC	110		0.637	MDL	3.41	PQL	mg/Kg	J	Q, E

Sample ID: SL-273-SA6-SB-4.0-5.0      Collected: 8/8/2011 8:20:00 AM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0784	J	0.0615	MDL	0.424	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-273-SA6-SB-4.0-5.0      Collected: 8/8/2011 8:20:00 AM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.117	J	0.0784	MDL	0.212	PQL	mg/Kg	UJ	Q, B
ARSENIC	3.73		0.0848	MDL	0.424	PQL	mg/Kg	J	Q
CADMIUM	0.0819	J	0.0466	MDL	0.106	PQL	mg/Kg	J	Z
CHROMIUM	14.2		0.127	MDL	0.424	PQL	mg/Kg	J	E, A
COBALT	5.53		0.0212	MDL	0.106	PQL	mg/Kg	J	E
COPPER	6.36		0.0848	MDL	0.424	PQL	mg/Kg	J	E
LEAD	4.65		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q
NICKEL	8.89		0.106	MDL	0.424	PQL	mg/Kg	J	Q, A
VANADIUM	32.2		0.0233	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	71.6		0.594	MDL	3.18	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-273-SA6-SB-9.0-10.0      Collected: 8/8/2011 8:30:00 AM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.144	J	0.0650	MDL	0.448	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-273-SA6-SB-9.0-10.0      Collected: 8/8/2011 8:30:00 AM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0912	J	0.0829	MDL	0.224	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.05		0.0896	MDL	0.448	PQL	mg/Kg	J	Q
CADMIUM	0.0906	J	0.0493	MDL	0.112	PQL	mg/Kg	J	Z
CHROMIUM	15.2		0.134	MDL	0.448	PQL	mg/Kg	J	E, A
COBALT	6.34		0.0224	MDL	0.112	PQL	mg/Kg	J	E
COPPER	7.01		0.0896	MDL	0.448	PQL	mg/Kg	J	E
LEAD	6.19		0.0114	MDL	0.224	PQL	mg/Kg	J	Q, Q
NICKEL	9.87		0.112	MDL	0.448	PQL	mg/Kg	J	Q, A
SILVER	0.0307	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	32.9		0.0246	MDL	0.112	PQL	mg/Kg	J	E, A
ZINC	64.7		0.627	MDL	3.36	PQL	mg/Kg	J	Q, E

<b>Method Category:</b>	METALS	
<b>Method:</b>	7199	<b>Matrix:</b> SO

Sample ID: SL-031-SA6-SB-4.0-5.0      Collected: 8/8/2011 2:50:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-031-SA6-SB-9.0-10.0      Collected: 8/8/2011 3:00:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.48	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-083-SA5DN-SB-4.0-5.0      Collected: 8/8/2011 11:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.24	MDL	1.2	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-153-SA5DN-SB-4.0-5.0 Collected: 8/8/2011 8:34:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-153-SA5DN-SB-7.0-8.0 Collected: 8/8/2011 9:50:00 AM Analysis Type: RES Dilution: 1

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

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

Sample ID: SL-031-SA6-SB-9.0-10.0 Collected: 8/8/2011 3:00:00 PM Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.50	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z
EFH (C30-C40)	0.87	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-273-SA6-SB-4.0-5.0 Collected: 8/8/2011 8:20:00 AM Analysis Type: REA2 Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.56	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

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

Sample ID: SL-031-SA6-SB-4.0-5.0 Collected: 8/8/2011 2:50:00 PM Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-031-SA6-SB-9.0-10.0 Collected: 8/8/2011 3:00:00 PM Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C	<b>Matrix:</b> SO

Sample ID: SL-031-SA6-SB-9.0-10.0      Collected: 8/8/2011 3:00:00 PM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-083-SA5DN-SB-4.0-5.0      Collected: 8/8/2011 11:45:00      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-153-SA5DN-SB-4.0-5.0      Collected: 8/8/2011 8:34:00 AM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-153-SA5DN-SB-7.0-8.0      Collected: 8/8/2011 9:50:00 AM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-273-SA6-SB-4.0-5.0      Collected: 8/8/2011 8:20:00 AM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-273-SA6-SB-9.0-10.0      Collected: 8/8/2011 8:30:00 AM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 8270C

**Matrix:** SO

**Sample ID:** SL-273-SA6-SB-9.0-10.0

**Collected:** 8/8/2011 8:30:00 AM

**Analysis Type:** RES-ACID

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

**Method Category:** SVOA

**Method:** 8270C SIM

**Matrix:** SO

**Sample ID:** SL-031-SA6-SB-4.0-5.0

**Collected:** 8/8/2011 2:50:00 PM

**Analysis Type:** RES-BASE/NEUTRAL

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.38	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.6	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	11	J	6.4	MDL	19	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	1.2	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

**Sample ID:** SL-083-SA5DN-SB-4.0-5.0

**Collected:** 8/8/2011 11:45:00

**Analysis Type:** RES-BASE/NEUTRAL

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	7.6	J	6.8	MDL	21	PQL	ug/Kg	J	Z

**Sample ID:** SL-153-SA5DN-SB-7.0-8.0

**Collected:** 8/8/2011 9:50:00 AM

**Analysis Type:** RES-BASE/NEUTRAL

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	12	J	6.8	MDL	20	PQL	ug/Kg	J	Z

**Sample ID:** SL-273-SA6-SB-9.0-10.0

**Collected:** 8/8/2011 8:30:00 AM

**Analysis Type:** RES-BASE/NEUTRAL

**Dilution:** 1

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

11/14/2011 8:15:00 AM

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DE219

# Method Blank Outlier Report

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408BB220447	8/16/2011 4:47:00 AM	ALUMINUM BORON CALCIUM MAGNESIUM PHOSPHORUS STRONTIUM TIN	7.29 mg/Kg 0.823 mg/Kg 16.5 mg/Kg 0.482 mg/Kg 1.19 mg/Kg 0.0910 mg/Kg 1.66 mg/Kg	SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-031-SA6-SB-4.0-5.0(RES)	BORON	3.39 mg/Kg	3.39U mg/Kg
SL-031-SA6-SB-4.0-5.0(RES)	TIN	2.31 mg/Kg	2.31U mg/Kg
SL-031-SA6-SB-9.0-10.0(RES)	BORON	3.03 mg/Kg	3.03U mg/Kg
SL-031-SA6-SB-9.0-10.0(RES)	TIN	2.77 mg/Kg	2.77U mg/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	TIN	2.13 mg/Kg	2.13U mg/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	BORON	3.78 mg/Kg	3.78U mg/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-273-SA6-SB-4.0-5.0(RES)	BORON	1.76 mg/Kg	1.76U mg/Kg
SL-273-SA6-SB-4.0-5.0(RES)	TIN	2.54 mg/Kg	2.54U mg/Kg
SL-273-SA6-SB-9.0-10.0(RES)	BORON	2.48 mg/Kg	2.48U mg/Kg
SL-273-SA6-SB-9.0-10.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg

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

11/14/2011 8:13:48 AM

ADR version 1.4.0.111

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-083-SA5DN-SB-4.0-5.0MS (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	FLUORIDE	27	-	80.00-120.00	-	FLUORIDE	J (all detects) R (all non-detects)

# Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-083-SA5DN-SB-4.0-5.0DUP (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	FLUORIDE	53	20.00	J (all detects) UJ (all non-detects)

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408BQ220451 (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	ALUMINUM IRON TITANIUM	141 135 182	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC Limits

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LELCSQ261858 (SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID BIS(2-CHLOROETHOXY)METHA	31 36 67	- - -	46.00-120.00 62.00-113.00 70.00-118.00	- - -	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID BIS(2-CHLOROETHOXY)METH	J(all detects) UJ(all non-detects)

## Reporting Limit Outliers

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	BORON	J	3.39	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	79.7	105	PQL	mg/Kg	
	TIN	J	2.31	10.5	PQL	mg/Kg	
	Zirconium	J	2.11	5.27	PQL	mg/Kg	
SL-031-SA6-SB-9.0-10.0	BORON	J	3.03	5.37	PQL	mg/Kg	J (all detects)
	TIN	J	2.77	10.7	PQL	mg/Kg	
	Zirconium	J	2.25	5.37	PQL	mg/Kg	
SL-083-SA5DN-SB-4.0-5.0	TIN	J	2.13	11.1	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.69	5.53	PQL	mg/Kg	
SL-153-SA5DN-SB-4.0-5.0	BORON	J	5.35	5.75	PQL	mg/Kg	J (all detects)
	TIN	J	3.16	11.5	PQL	mg/Kg	
	Zirconium	J	5.34	5.75	PQL	mg/Kg	
SL-153-SA5DN-SB-7.0-8.0	BORON	J	3.78	5.68	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	11.4	PQL	mg/Kg	
SL-273-SA6-SB-4.0-5.0	BORON	J	1.76	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	2.54	10.5	PQL	mg/Kg	
	Zirconium	J	1.30	5.25	PQL	mg/Kg	
SL-273-SA6-SB-9.0-10.0	BORON	J	2.48	5.60	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	11.2	PQL	mg/Kg	
	Zirconium	J	1.95	5.60	PQL	mg/Kg	

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	ANTIMONY	J	0.136	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.148	0.425	PQL	mg/Kg	
	SILVER	J	0.0325	0.106	PQL	mg/Kg	
SL-031-SA6-SB-9.0-10.0	ANTIMONY	J	0.104	0.217	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.212	0.434	PQL	mg/Kg	
	SILVER	J	0.0579	0.108	PQL	mg/Kg	
SL-083-SA5DN-SB-4.0-5.0	SELENIUM	J	0.108	0.447	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0528	0.112	PQL	mg/Kg	
SL-153-SA5DN-SB-4.0-5.0	SELENIUM	J	0.236	0.460	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0524	0.115	PQL	mg/Kg	
SL-153-SA5DN-SB-7.0-8.0	SELENIUM	J	0.376	0.455	PQL	mg/Kg	J (all detects)
SL-273-SA6-SB-4.0-5.0	ANTIMONY	J	0.117	0.212	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0819	0.106	PQL	mg/Kg	
	SELENIUM	J	0.0784	0.424	PQL	mg/Kg	
SL-273-SA6-SB-9.0-10.0	ANTIMONY	J	0.0912	0.224	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0906	0.112	PQL	mg/Kg	
	SELENIUM	J	0.144	0.448	PQL	mg/Kg	
	SILVER	J	0.0307	0.112	PQL	mg/Kg	

## Reporting Limit Outliers

Lab Reporting Batch ID: DE219

Laboratory: LL

EDD Filename: DE219\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method: 7199**  
**Matrix: SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.36	1.1	PQL	mg/Kg	J (all detects)
SL-031-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.48	1.1	PQL	mg/Kg	J (all detects)
SL-083-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.52	1.2	PQL	mg/Kg	J (all detects)
SL-153-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.49	1.2	PQL	mg/Kg	J (all detects)
SL-153-SA5DN-SB-7.0-8.0	HEXAVALENT CHROMIUM	J	0.26	1.2	PQL	mg/Kg	J (all detects)

**Method: 8015M**  
**Matrix: SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-9.0-10.0	EFH (C21-C30)	J	0.50	1.3	PQL	mg/Kg	J (all detects)
	EFH (C30-C40)	J	0.87	1.3	PQL	mg/Kg	
SL-273-SA6-SB-4.0-5.0	EFH (C30-C40)	J	0.56	1.3	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-4.0-5.0	ANTHRACENE	J	0.38	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.6	1.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	11	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	1.2	1.8	PQL	ug/Kg	
SL-083-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	7.6	21	PQL	ug/Kg	J (all detects)
SL-153-SA5DN-SB-7.0-8.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	20	PQL	ug/Kg	J (all detects)
SL-273-SA6-SB-9.0-10.0	BENZO(B)FLUORANTHENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)

LDC #: 26533H4  
 SDG #: DE219  
 Laboratory: Lancaster Laboratories

**VALIDATION COMPLETENESS WORKSHEET**  
 ADR

Date: 11/7/11  
 Page: 1 of 1  
 Reviewer: *huj*  
 2nd Reviewer: *[Signature]*

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	} See DE220
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	cf. N <sub>1</sub> , V. J/MJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

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

Validated Samples:

1	SL-083-SA5DN-SB-4.0-5.0	11	MB	21		31	
2	SL-153-SA5DN-SB-4.0-5.0	12		22		32	
3	SL-153-SA5DN-SB-7.0-8.0	13		23		33	
4	SL-273-SA6-SB-4.0-5.0	14		24		34	
5	SL-273-SA6-SB-9.0-10.0	15		25		35	
6	SL-031-SA6-SB-4.0-5.0	16		26		36	
7	SL-031-SA6-SB-9.0-10.0	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)  
Soil preparation factor applied: 200X

Reviewer: \_\_\_\_\_  
2nd Reviewer: \_\_\_\_\_

Reason: B

Associated Samples: All

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Limit	1	2	3	4	5	6	7
Sb			0.38	0.38	0.33	0.33	0.33	0.12	0.091	0.14	0.10
Be			0.057	0.057							

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

# **SAMPLE DELIVERY GROUP**

**DE220**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	TB-080911	6371362	TB	5030B	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3050B	6010B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3050B	6020	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3060A	7199	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8015B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8082	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8270C	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	3550B	8270C SIM	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	5035	8015M	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	300.0	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	314.0	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	7471A	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	8015B	III
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371360	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3050B	6010B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3050B	6020	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3060A	7199	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3546	1625C	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8082	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8270C	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	3550B	8270C SIM	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	5035	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	8330	8330A	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	300.0	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	314.0	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	7471A	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	8315A	III
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371365	N	METHOD	9012B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3050B	6010B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3050B	6020	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3060A	7199	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3546	1625C	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8082	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8270C	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	3550B	8270C SIM	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	5035	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	8330	8330A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	300.0	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	314.0	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	7471A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8015B	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8015M	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	8315A	III
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371366	N	METHOD	9012B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3050B	6010B	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3050B	6020	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3060A	7199	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8015B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8015M	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8082	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8270C	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	3550B	8270C SIM	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	5035	8015M	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	300.0	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	314.0	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	7471A	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	8015B	III
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371359	N	METHOD	8015M	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3050B	6010B	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3050B	6020	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3060A	7199	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8082	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8270C	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	3550B	8270C SIM	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	300.0	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	314.0	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	6850	III
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371364	N	METHOD	7471A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3005A	6010B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3020A	6020	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8015B	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8082	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8270C	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3510C	8270C SIM	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	3520C	1625C	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8260B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	5030B	8260B SIM	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	8330	8330A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	300.0	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	314.0	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	7199	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	8015B	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	Gen Prep	8015M	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	7470A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	8315A	III
09-Aug-2011	EB-SA6-SB-080911	6371363	EB	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3050B	6010B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3050B	6020	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3060A	7199	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3546	1625C	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8015B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8082	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8270C	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	3550B	8270C SIM	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	5035	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	8330	8330A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	300.0	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	314.0	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	7471A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8015B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8015M	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	8315A	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371361	N	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5DUP	P371361D271346A	DUP	METHOD	9012B	III
09-Aug-2011	SL-049-SA6-SB-2.5-3.5MS	P371361R271347A	MS	METHOD	9012B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	3550B	8270C SIM	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371367	N	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	3550B	8270C SIM	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371368	MS	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	314.0	III
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0DU	6371370	DUP	METHOD	7471A	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3050B	6010B	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3050B	6020	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3060A	7199	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8082	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8270C	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	3550B	8270C SIM	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	300.0	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	314.0	III
09-Aug-2011	DUP24-SA5DN-QC-080911	6371372	FD	METHOD	7471A	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3050B	6010B	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3050B	6020	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3060A	7199	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8082	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8270C	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	3550B	8270C SIM	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	300.0	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	314.0	III

## Sample Cross Reference

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Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	6850	III
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371371	N	METHOD	7471A	III

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## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	GENCHEM	
<b>Method:</b>	300.0	<b>Matrix:</b> SO

Sample ID: DUP24-SA5DN-QC-080911      Collected: 8/9/2011 3:28:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.6		0.91	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 3:25:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.7		0.90	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 4:15:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.4		0.92	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-011-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 11:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.9		0.92	MDL	1.1	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 8:50:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.7		0.83	MDL	1.0	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 9:30:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	7.2		0.93	MDL	1.2	PQL	mg/Kg	J	Q, E
Nitrate-NO3	1.3	J	0.93	MDL	1.7	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5      Collected: 8/9/2011 9:56:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.2		0.86	MDL	1.1	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

11/12/2011 11:39:14 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	GENCHEM	
<b>Method:</b>	300.0	<b>Matrix:</b> SO

Sample ID: SL-044-SA6-SB-2.5-3.5      Collected: 8/9/2011 8:09:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	5.4		0.96	MDL	1.2	PQL	mg/Kg	J	Q, E

Sample ID: SL-049-SA6-SB-2.5-3.5      Collected: 8/9/2011 2:15:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.88	U	0.88	MDL	1.1	PQL	mg/Kg	UJ	Q, E
Nitrate-NO3	1.5	J	0.88	MDL	1.7	PQL	mg/Kg	J	Z

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> AQ

Sample ID: EB-SA6-SB-080911      Collected: 8/9/2011 1:00:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0080	J	0.0022	MDL	0.0500	PQL	mg/L	U	B
STRONTIUM	0.00053	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: DUP24-SA5DN-QC-080911      Collected: 8/9/2011 3:28:00 PM      Analysis Type: REA      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.03	J	0.400	MDL	5.56	PQL	mg/Kg	U	B, F
MANGANESE	166		0.0400	MDL	0.556	PQL	mg/Kg	J	Q, E
PHOSPHORUS	184		0.389	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	2270		12.6	MDL	55.6	PQL	mg/Kg	J	Q
SODIUM	102	J	6.61	MDL	111	PQL	mg/Kg	J	Z
TIN	2.56	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	3.12	J	0.511	MDL	5.56	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 3:25:00 PM      Analysis Type: REA      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.91	J	0.384	MDL	5.33	PQL	mg/Kg	U	B, F

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: SL-009-SA5DN-SB-4.0-5.0

Collected: 8/9/2011 3:25:00 PM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	137		0.0384	MDL	0.533	PQL	mg/Kg	J	Q, E
PHOSPHORUS	178		0.373	MDL	10.7	PQL	mg/Kg	J	Q
POTASSIUM	2190		12.0	MDL	53.3	PQL	mg/Kg	J	Q
SODIUM	95.4	J	6.34	MDL	107	PQL	mg/Kg	J	Z
TIN	2.65	J	0.341	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.490	MDL	5.33	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DN-SB-9.0-10.0

Collected: 8/9/2011 4:15:00 PM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	386		0.0409	MDL	0.569	PQL	mg/Kg	J	Q, E
PHOSPHORUS	398		0.398	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	3480		12.9	MDL	56.9	PQL	mg/Kg	J	Q
TIN	2.62	J	0.364	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.99	J	0.523	MDL	5.69	PQL	mg/Kg	J	Z

Sample ID: SL-011-SA5DN-SB-4.0-5.0

Collected: 8/9/2011 11:40:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.85	J	0.397	MDL	5.51	PQL	mg/Kg	U	B, F
MANGANESE	479		0.0397	MDL	0.551	PQL	mg/Kg	J	Q, E
PHOSPHORUS	253		0.386	MDL	11.0	PQL	mg/Kg	J	Q
POTASSIUM	2220		12.4	MDL	55.1	PQL	mg/Kg	J	Q
TIN	2.64	J	0.353	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	3.07	J	0.507	MDL	5.51	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-4.0-5.0

Collected: 8/9/2011 8:50:00 AM

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.79	J	0.370	MDL	5.14	PQL	mg/Kg	U	B, F
MANGANESE	177		0.0370	MDL	0.514	PQL	mg/Kg	J	Q, E
PHOSPHORUS	1570		0.360	MDL	10.3	PQL	mg/Kg	J	Q
POTASSIUM	2750		11.6	MDL	51.4	PQL	mg/Kg	J	Q
TIN	1.46	J	0.329	MDL	10.3	PQL	mg/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: SL-012-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 9:30:00 AM      Analysis Type: REA      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.59	J	0.410	MDL	5.70	PQL	mg/Kg	J	Z
MANGANESE	290		0.0410	MDL	0.570	PQL	mg/Kg	J	Q, E
PHOSPHORUS	369		0.399	MDL	11.4	PQL	mg/Kg	J	Q
POTASSIUM	2920		12.9	MDL	57.0	PQL	mg/Kg	J	Q
TIN	2.67	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.92	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5      Collected: 8/9/2011 9:56:00 AM      Analysis Type: REA      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.86	J	0.383	MDL	5.32	PQL	mg/Kg	U	B, F
MANGANESE	352		0.0383	MDL	0.532	PQL	mg/Kg	J	Q, E
PHOSPHORUS	369		0.373	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	2940		12.0	MDL	53.2	PQL	mg/Kg	J	Q
TIN	2.37	J	0.341	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.490	MDL	5.32	PQL	mg/Kg	J	Z

Sample ID: SL-044-SA6-SB-2.5-3.5      Collected: 8/9/2011 8:09:00 AM      Analysis Type: REA      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.14	J	0.419	MDL	5.81	PQL	mg/Kg	U	B, F
MANGANESE	301		0.0419	MDL	0.581	PQL	mg/Kg	J	Q, E
PHOSPHORUS	340		0.407	MDL	11.6	PQL	mg/Kg	J	Q
POTASSIUM	2920		13.1	MDL	58.1	PQL	mg/Kg	J	Q
TIN	2.75	J	0.372	MDL	11.6	PQL	mg/Kg	U	B
Zirconium	1.87	J	0.535	MDL	5.81	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5      Collected: 8/9/2011 2:15:00 PM      Analysis Type: REA      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.80	J	0.379	MDL	5.27	PQL	mg/Kg	U	B, F
MANGANESE	176		0.0379	MDL	0.527	PQL	mg/Kg	J	Q, E
PHOSPHORUS	264		0.369	MDL	10.5	PQL	mg/Kg	J	Q
POTASSIUM	1770		11.9	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	90.3	J	6.27	MDL	105	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: SL-049-SA6-SB-2.5-3.5      Collected: 8/9/2011 2:15:00 PM      Analysis Type: REA      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.97	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.30	J	0.485	MDL	5.27	PQL	mg/Kg	J	Z

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> AQ

Sample ID: EB-SA6-SB-080911      Collected: 8/9/2011 1:00:00 PM      Analysis Type: REA4      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.000083	J	0.00008 0	MDL	0.0010	PQL	mg/L	J	Z

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: DUP24-SA5DN-QC-080911      Collected: 8/9/2011 3:28:00 PM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0638	U	0.0638	MDL	0.440	PQL	mg/Kg	UJ	E

Sample ID: DUP24-SA5DN-QC-080911      Collected: 8/9/2011 3:28:00 PM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.190	J	0.0814	MDL	0.220	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.39		0.0880	MDL	0.440	PQL	mg/Kg	J	Q
CADMIUM	0.0779	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
CHROMIUM	20.9		0.132	MDL	0.440	PQL	mg/Kg	J	E, A
COBALT	5.43		0.0220	MDL	0.110	PQL	mg/Kg	J	E, FD
COPPER	10.7		0.0880	MDL	0.440	PQL	mg/Kg	J	E
LEAD	7.02		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, Q
NICKEL	13.1		0.110	MDL	0.440	PQL	mg/Kg	J	Q, A
SILVER	0.0572	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	41.6		0.0242	MDL	0.110	PQL	mg/Kg	J	E, A
ZINC	47.3		0.616	MDL	3.30	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-009-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 3:25:00 PM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0618	U	0.0618	MDL	0.426	PQL	mg/Kg	UJ	E

Sample ID: SL-009-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 3:25:00 PM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.236		0.0789	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.33		0.0853	MDL	0.426	PQL	mg/Kg	J	Q
CHROMIUM	15.6		0.128	MDL	0.426	PQL	mg/Kg	J	E, A
COBALT	11.9		0.0213	MDL	0.107	PQL	mg/Kg	J	E, FD
COPPER	8.73		0.0853	MDL	0.426	PQL	mg/Kg	J	E
LEAD	7.94		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	13.0		0.107	MDL	0.426	PQL	mg/Kg	J	Q, A
SILVER	0.0481	J	0.0151	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	34.5		0.0235	MDL	0.107	PQL	mg/Kg	J	E, A
ZINC	38.7		0.597	MDL	3.20	PQL	mg/Kg	J	Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 4:15:00 PM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.107	J	0.0666	MDL	0.459	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-009-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 4:15:00 PM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.853		0.0850	MDL	0.230	PQL	mg/Kg	J	Q
ARSENIC	12.1		0.0919	MDL	0.459	PQL	mg/Kg	J	Q
CHROMIUM	35.3		0.138	MDL	0.459	PQL	mg/Kg	J	E, A
COBALT	14.5		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	20.2		0.0919	MDL	0.459	PQL	mg/Kg	J	E
LEAD	14.6		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	28.5		0.115	MDL	0.459	PQL	mg/Kg	J	Q, A
SILVER	0.0668	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	76.9		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	80.8		0.643	MDL	3.45	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	<b>Method:</b>	6020	<b>Matrix:</b>	SO
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Sample ID: SL-011-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 11:40:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0639	U	0.0639	MDL	0.441	PQL	mg/Kg	UJ	E

Sample ID: SL-011-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 11:40:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.287		0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q, B
ARSENIC	7.19		0.0881	MDL	0.441	PQL	mg/Kg	J	Q
CHROMIUM	24.5		0.132	MDL	0.441	PQL	mg/Kg	J	E, A
COBALT	8.43		0.0220	MDL	0.110	PQL	mg/Kg	J	E
COPPER	12.7		0.0881	MDL	0.441	PQL	mg/Kg	J	E
LEAD	8.23		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, Q
NICKEL	17.6		0.110	MDL	0.441	PQL	mg/Kg	J	Q, A
SILVER	0.0419	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.1		0.0242	MDL	0.110	PQL	mg/Kg	J	E, A
ZINC	49.8		0.617	MDL	3.30	PQL	mg/Kg	J	Q, E

Sample ID: SL-012-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 8:50:00 AM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.129	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-012-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 8:50:00 AM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0760	U	0.0760	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	0.944		0.0822	MDL	0.411	PQL	mg/Kg	J	Q
CADMIUM	0.0708	J	0.0452	MDL	0.103	PQL	mg/Kg	J	Z
CHROMIUM	23.2		0.123	MDL	0.411	PQL	mg/Kg	J	E, A
COBALT	14.5		0.0206	MDL	0.103	PQL	mg/Kg	J	E
COPPER	19.2		0.0822	MDL	0.411	PQL	mg/Kg	J	E
LEAD	1.54		0.0105	MDL	0.206	PQL	mg/Kg	J	Q, Q
NICKEL	29.8		0.103	MDL	0.411	PQL	mg/Kg	J	Q, A
THALLIUM	0.0642	J	0.0308	MDL	0.103	PQL	mg/Kg	J	Z
VANADIUM	49.0		0.0226	MDL	0.103	PQL	mg/Kg	J	E, A
ZINC	31.7		0.575	MDL	3.08	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	<b>Method:</b>	6020	<b>Matrix:</b>	SO
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Sample ID: SL-012-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 9:30:00 AM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0668	U	0.0668	MDL	0.461	PQL	mg/Kg	UJ	E

Sample ID: SL-012-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 9:30:00 AM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.246		0.0852	MDL	0.230	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.43		0.0921	MDL	0.461	PQL	mg/Kg	J	Q
CHROMIUM	30.0		0.138	MDL	0.461	PQL	mg/Kg	J	E, A
COBALT	14.3		0.0230	MDL	0.115	PQL	mg/Kg	J	E
COPPER	16.2		0.0921	MDL	0.461	PQL	mg/Kg	J	E
LEAD	9.92		0.0117	MDL	0.230	PQL	mg/Kg	J	Q, Q
NICKEL	23.6		0.115	MDL	0.461	PQL	mg/Kg	J	Q, A
SILVER	0.0868	J	0.0163	MDL	0.115	PQL	mg/Kg	J	Z
VANADIUM	54.3		0.0253	MDL	0.115	PQL	mg/Kg	J	E, A
ZINC	67.9		0.645	MDL	3.45	PQL	mg/Kg	J	Q, E

Sample ID: SL-042-SA6-SB-2.5-3.5      Collected: 8/9/2011 9:56:00 AM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.143	J	0.0617	MDL	0.426	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-042-SA6-SB-2.5-3.5      Collected: 8/9/2011 9:56:00 AM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0926	J	0.0788	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	2.81		0.0852	MDL	0.426	PQL	mg/Kg	J	Q
CHROMIUM	13.2		0.128	MDL	0.426	PQL	mg/Kg	J	E, A
COBALT	4.48		0.0213	MDL	0.106	PQL	mg/Kg	J	E
COPPER	6.65		0.0852	MDL	0.426	PQL	mg/Kg	J	E
LEAD	4.24		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, Q
NICKEL	8.69		0.106	MDL	0.426	PQL	mg/Kg	J	Q, A
SILVER	0.0434	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z
VANADIUM	25.1		0.0234	MDL	0.106	PQL	mg/Kg	J	E, A
ZINC	48.2		0.596	MDL	3.19	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-044-SA6-SB-2.5-3.5      Collected: 8/9/2011 8:09:00 AM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.233	J	0.0688	MDL	0.474	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-044-SA6-SB-2.5-3.5      Collected: 8/9/2011 8:09:00 AM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0878	MDL	0.237	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.40		0.0949	MDL	0.474	PQL	mg/Kg	J	Q
CADMIUM	0.117	J	0.0522	MDL	0.119	PQL	mg/Kg	J	Z
CHROMIUM	17.4		0.142	MDL	0.474	PQL	mg/Kg	J	E, A
COBALT	6.37		0.0237	MDL	0.119	PQL	mg/Kg	J	E
COPPER	8.38		0.0949	MDL	0.474	PQL	mg/Kg	J	E
LEAD	7.07		0.0121	MDL	0.237	PQL	mg/Kg	J	Q, Q
NICKEL	12.1		0.119	MDL	0.474	PQL	mg/Kg	J	Q, A
SILVER	0.0587	J	0.0168	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	36.3		0.0261	MDL	0.119	PQL	mg/Kg	J	E, A
ZINC	72.6		0.664	MDL	3.56	PQL	mg/Kg	J	Q, E

Sample ID: SL-049-SA6-SB-2.5-3.5      Collected: 8/9/2011 2:15:00 PM      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.212	J	0.0624	MDL	0.430	PQL	mg/Kg	J	Z, Q, E

Sample ID: SL-049-SA6-SB-2.5-3.5      Collected: 8/9/2011 2:15:00 PM      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.174	J	0.0796	MDL	0.215	PQL	mg/Kg	UJ	Q, B
ARSENIC	5.94		0.0860	MDL	0.430	PQL	mg/Kg	J	Q
CHROMIUM	17.0		0.129	MDL	0.430	PQL	mg/Kg	J	E, A
COBALT	4.69		0.0215	MDL	0.108	PQL	mg/Kg	J	E
COPPER	5.54		0.0860	MDL	0.430	PQL	mg/Kg	J	E
LEAD	6.88		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, Q
NICKEL	9.81		0.108	MDL	0.430	PQL	mg/Kg	J	Q, A
SILVER	0.0405	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z
VANADIUM	40.0		0.0237	MDL	0.108	PQL	mg/Kg	J	E, A
ZINC	43.2		0.602	MDL	3.23	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

<b>Method Category:</b>	METALS	
<b>Method:</b>	7199	<b>Matrix:</b> SO

Sample ID: SL-011-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 11:40:00      Analysis Type: RES      Dilution: 1

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

Sample ID: SL-042-SA6-SB-2.5-3.5      Collected: 8/9/2011 9:56:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-044-SA6-SB-2.5-3.5      Collected: 8/9/2011 8:09:00 AM      Analysis Type: RES      Dilution: 1

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

Sample ID: SL-049-SA6-SB-2.5-3.5      Collected: 8/9/2011 2:15:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.30	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

<b>Method Category:</b>	METALS	
<b>Method:</b>	7471A	<b>Matrix:</b> SO

Sample ID: DUP24-SA5DN-QC-080911      Collected: 8/9/2011 3:28:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0188	J	0.0079	MDL	0.112	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 3:25:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0232	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	7471A	<b>Matrix:</b> SO

Sample ID: SL-012-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 8:50:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0123	J	0.0070	MDL	0.100	PQL	mg/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 9:30:00 AM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0211	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5      Collected: 8/9/2011 2:15:00 PM      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0259	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1625C	<b>Matrix:</b> AQ

Sample ID: EB-SA6-SB-080911      Collected: 8/9/2011 1:00:00 PM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.68		0.511	MDL	1.02	PQL	ng/L	UJ	B, S

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8015M	<b>Matrix:</b> SO

Sample ID: SL-012-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 9:30:00 AM      Analysis Type: REA2      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.68	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5      Collected: 8/9/2011 9:56:00 AM      Analysis Type: REA2      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.93	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8015M	<b>Matrix:</b> SO

Sample ID: SL-049-SA6-SB-2.5-3.5      Collected: 8/9/2011 2:15:00 PM      Analysis Type: REA2      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.45	J	0.43	MDL	1.3	PQL	mg/Kg	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C	<b>Matrix:</b> AQ

Sample ID: EB-SA6-SB-080911      Collected: 8/9/2011 1:00:00 PM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	R	L

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C	<b>Matrix:</b> SO

Sample ID: DUP24-SA5DN-QC-080911      Collected: 8/9/2011 3:28:00 PM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-009-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 3:25:00 PM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	370	U	370	MDL	1100	PQL	ug/Kg	R	Q
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	550	PQL	ug/Kg	R	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	Q, L

Sample ID: SL-009-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 4:15:00 PM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C	<b>Matrix:</b> SO

Sample ID: SL-011-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 11:40:00      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	560	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-012-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 8:50:00 AM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	17	U	17	MDL	170	PQL	ug/Kg	UJ	L

Sample ID: SL-012-SA5DN-SB-9.0-10.0      Collected: 8/9/2011 9:30:00 AM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BENZOIC ACID	190	U	190	MDL	580	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	19	U	19	MDL	190	PQL	ug/Kg	UJ	L

Sample ID: SL-042-SA6-SB-2.5-3.5      Collected: 8/9/2011 9:56:00 AM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

Sample ID: SL-044-SA6-SB-2.5-3.5      Collected: 8/9/2011 8:09:00 AM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	200	U	200	MDL	590	PQL	ug/Kg	UJ	L
BENZOIC ACID	200	U	200	MDL	590	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	20	U	20	MDL	200	PQL	ug/Kg	UJ	L

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C	<b>Matrix:</b> SO

Sample ID: SL-049-SA6-SB-2.5-3.5      Collected: 8/9/2011 2:15:00 PM      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BENZOIC ACID	180	U	180	MDL	540	PQL	ug/Kg	UJ	L
BIS(2-CHLOROETHOXY)METHANE	18	U	18	MDL	180	PQL	ug/Kg	UJ	L

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C SIM	<b>Matrix:</b> AQ

Sample ID: EB-SA6-SB-080911      Collected: 8/9/2011 1:00:00 PM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.094	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Butylbenzylphthalate	0.15	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Diethylphthalate	0.065	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-butylphthalate	0.16	J	0.051	MDL	1.0	PQL	ug/L	J	Z
Di-n-octylphthalate	0.14	J	0.051	MDL	1.0	PQL	ug/L	J	Z
NAPHTHALENE	0.048	J	0.030	MDL	0.051	PQL	ug/L	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C SIM	<b>Matrix:</b> SO

Sample ID: DUP24-SA5DN-QC-080911      Collected: 8/9/2011 3:28:00 PM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21		6.7	MDL	20	PQL	ug/Kg	J	FD
Di-n-octylphthalate	52		6.7	MDL	20	PQL	ug/Kg	J	FD

Sample ID: SL-009-SA5DN-SB-4.0-5.0      Collected: 8/9/2011 3:25:00 PM      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	Q
BIS(2-ETHYLHEXYL)PHTHALATE	50		6.7	MDL	20	PQL	ug/Kg	J	Q, FD
Di-n-octylphthalate	6.7	U	6.7	MDL	20	PQL	ug/Kg	UJ	FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-011-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 11:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	13	J	6.7	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-012-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 8:50:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-octylphthalate	11	J	6.2	MDL	19	PQL	ug/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5 Collected: 8/9/2011 9:56:00 AM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.69	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5 Collected: 8/9/2011 2:15:00 PM Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.5	J	6.5	MDL	19	PQL	ug/Kg	J	Z

**Method Category:** SVOA  
**Method:** 8315A **Matrix:** SO

Sample ID: SL-012-SA5DN-SB-4.0-5.0 Collected: 8/9/2011 8:50:00 AM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	660	J	630	MDL	1600	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA6-SB-080911 Collected: 8/9/2011 1:00:00 PM Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACETONE	13	J	6	MDL	20	PQL	ug/L	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DE220

# Method Blank Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1625C  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE22B261554	8/16/2011 3:54:00 PM	N-NITROSODIMETHYLAMINE	1.64 ng/L	EB-SA6-SB-080911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-080911(RES)	N-NITROSODIMETHYLAMINE	3.68 ng/L	3.68U ng/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22448AB221736	8/15/2011 5:36:00 PM	BORON CALCIUM STRONTIUM	0.0067 mg/L 0.0748 mg/L 0.00056 mg/L	EB-SA6-SB-080911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-080911(RES)	BORON	0.0080 mg/L	0.0080U mg/L
EB-SA6-SB-080911(RES)	STRONTIUM	0.00053 mg/L	0.00053U mg/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408BB220447	8/16/2011 4:47:00 AM	ALUMINUM BORON CALCIUM MAGNESIUM PHOSPHORUS STRONTIUM TIN	7.29 mg/Kg 0.823 mg/Kg 16.5 mg/Kg 0.482 mg/Kg 1.19 mg/Kg 0.0910 mg/Kg 1.66 mg/Kg	DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP24-SA5DN-QC-080911(REA)	BORON	3.03 mg/Kg	3.03U mg/Kg
DUP24-SA5DN-QC-080911(REA)	TIN	2.56 mg/Kg	2.56U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	BORON	2.91 mg/Kg	2.91U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-009-SA5DN-SB-9.0-10.0(REA)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	BORON	3.85 mg/Kg	3.85U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	TIN	2.64 mg/Kg	2.64U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	BORON	1.79 mg/Kg	1.79U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	TIN	1.46 mg/Kg	1.46U mg/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-012-SA5DN-SB-9.0-10.0(REA)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	BORON	3.86 mg/Kg	3.86U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	TIN	2.37 mg/Kg	2.37U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	BORON	3.14 mg/Kg	3.14U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	TIN	2.75 mg/Kg	2.75U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	BORON	2.80 mg/Kg	2.80U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	TIN	2.97 mg/Kg	2.97U mg/Kg

# Equipment Rinsate Blank Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

Equipment Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
EB-SA6-SB-080911(RES)	8/9/2011 1:00:00 PM	BORON STRONTIUM	0.008 mg/L 0.00053 mg/L	DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP24-SA5DN-QC-080911(REA)	BORON	3.03 mg/Kg	3.03U mg/Kg
SL-009-SA5DN-SB-4.0-5.0(REA)	BORON	2.91 mg/Kg	2.91U mg/Kg
SL-011-SA5DN-SB-4.0-5.0(REA)	BORON	3.85 mg/Kg	3.85U mg/Kg
SL-012-SA5DN-SB-4.0-5.0(REA)	BORON	1.79 mg/Kg	1.79U mg/Kg
SL-042-SA6-SB-2.5-3.5(REA)	BORON	3.86 mg/Kg	3.86U mg/Kg
SL-044-SA6-SB-2.5-3.5(REA)	BORON	3.14 mg/Kg	3.14U mg/Kg
SL-049-SA6-SB-2.5-3.5(REA)	BORON	2.80 mg/Kg	2.80U mg/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	LEAD	4	33	75.00-125.00	-	LEAD	J (all detects) R (all non-detects)  post spike = 69%
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	ANTIMONY ARSENIC NICKEL ZINC	45 71 72 71	56 - - -	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ANTIMONY ARSENIC NICKEL ZINC	J(all detects) UJ(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	SELENIUM	-	128	75.00-125.00	29 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	BARIUM	-114	-101	75.00-125.00	-	BARIUM	No Qual, >4x

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	ALUMINUM IRON MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	2060 627 243 126 - 317	2380 2001 275 135 127 287	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM IRON MAGNESIUM PHOSPHORUS POTASSIUM TITANIUM	J(all detects)  Al, Fe, Mg, Ti, No Qual, >4x
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	MANGANESE	161	306	75.00-125.00	30 (20.00)	MANGANESE	J(all detects) UJ(all non-detects)

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL PENTACHLOROPHENOL	- -	- -	11.00-126.00 28.00-127.00	60 (30.00) 35 (30.00)	4,6-DINITRO-2-METHYLPHEN PENTACHLOROPHENOL	J(all detects)
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	2,4-DINITROPHENOL BENZOIC ACID	0 0	- -	20.00-143.00 10.00-173.00	200 (30.00) 200 (30.00)	2,4-DINITROPHENOL BENZOIC ACID	J(all detects) R(all non-detects)
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	BIS(2-CHLOROETHOXY)METHA	73	73	75.00-104.00	-	BIS(2-CHLOROETHOXY)METH	J(all detects) UJ(all non-detects)

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	ACENAPHTHENE	107	106	63.00-105.00	-	ACENAPHTHENE	J(all detects)
SL-009-SA5DN-SB-4.0-5.0MS SL-009-SA5DN-SB-4.0-5.0MSD (SL-009-SA5DN-SB-4.0-5.0)	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALAT	72 23	- 13	73.00-115.00 39.00-167.00	- -	ANTHRACENE BIS(2-ETHYLHEXYL)PHTHALA	J(all detects) UJ(all non-detects)

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0MS (DUP24-SA5DN-QC-080911 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5)	FLUORIDE	64	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

# Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP (DUP24 -SA5DN-QC-080911 SL -009-SA5DN-SB-4.0-5.0 SL -009-SA5DN-SB-9.0-10.0 SL -011-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-9.0-10.0 SL -042-SA6-SB-2.5-3.5 SL -044-SA6-SB-2.5-3.5 SL -049-SA6-SB-2.5-3.5)	FLUORIDE Nitrate-NO3	26 35	20.00 20.00	J (all detects) UJ (all non-detects)  Nitrate, No Qual, OK by Difference

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

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP (DUP24 -SA5DN-QC-080911 SL -009-SA5DN-SB-4.0-5.0 SL -009-SA5DN-SB-9.0-10.0 SL -011-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-9.0-10.0 SL -042-SA6-SB-2.5-3.5 SL -044-SA6-SB-2.5-3.5 SL -049-SA6-SB-2.5-3.5)	CADMIUM CHROMIUM COBALT COPPER MOLYBDENUM THALLIUM VANADIUM ZINC	43 35 64 23 21 23 23 23	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects)  Cd, Mo, Tl, No Qual, OK by Difference

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

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-009-SA5DN-SB-4.0-5.0DUP (DUP24 -SA5DN-QC-080911 SL -009-SA5DN-SB-4.0-5.0 SL -009-SA5DN-SB-9.0-10.0 SL -011-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-4.0-5.0 SL -012-SA5DN-SB-9.0-10.0 SL -042-SA6-SB-2.5-3.5 SL -044-SA6-SB-2.5-3.5 SL -049-SA6-SB-2.5-3.5)	MERCURY	50	20.00	No Qual, OK by Difference

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method: 8330A**  
**Matrix: AQ**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12273AQ240057A	2,4,6-TRINITROTOLUENE	110	-	76.00-109.00	-	2,4,6-TRINITROTOLUENE	J (all detects)
P12273AY240139A	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	
(EB-SA6-SB-080911)	PETN	138	138	80.00-120.00	-	PETN	

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P2WGLCSQ260627	4-BROMOPHENYL-PHENYLETH	119	116	75.00-115.00	-	4-BROMOPHENYL-PHENYLET	J(all detects)
P2WGLCSY260651	PENTACHLOROPHENOL	-	115	53.00-110.00	-	PENTACHLOROPHENOL	
(EB-SA6-SB-080911)							
P2WGLCSQ260627	BENZOIC ACID	0	-	10.00-69.00	200 (30.00)	BENZOIC ACID	J(all detects) R(all non-detects)
P2WGLCSY260651							
(EB-SA6-SB-080911)							

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408BQ220451	ALUMINUM	141	-	80.00-120.00	-	ALUMINUM	No Qual, SRM within QC Limits
(DUP24 -SA5DN -QC-080911	IRON	135	-	80.00-120.00	-	IRON	
SL -009 -SA5DN -SB-4.0-5.0	TITANIUM	182	-	80.00-120.00	-	TITANIUM	
SL -009 -SA5DN -SB-9.0-10.0							
SL -011 -SA5DN -SB-4.0-5.0							
SL -012 -SA5DN -SB-4.0-5.0							
SL -012 -SA5DN -SB-9.0-10.0							
SL -042 -SA6 -SB-2.5-3.5							
SL -044 -SA6 -SB-2.5-3.5							
SL -049 -SA6 -SB-2.5-3.5)							

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LELCSQ261858	4,6-DINITRO-2-METHYLPHENOL	31	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) UJ(all non-detects)
(DUP24 -SA5DN -QC-080911	BENZOIC ACID	36	-	62.00-113.00	-	BENZOIC ACID	
SL -009 -SA5DN -SB-4.0-5.0	BIS(2-CHLOROETHOXY)METHA	67	-	70.00-118.00	-	BIS(2-CHLOROETHOXY)METH	
SL -009 -SA5DN -SB-9.0-10.0							
SL -011 -SA5DN -SB-4.0-5.0							
SL -012 -SA5DN -SB-4.0-5.0							
SL -012 -SA5DN -SB-9.0-10.0							
SL -042 -SA6 -SB-2.5-3.5							
SL -044 -SA6 -SB-2.5-3.5							
SL -049 -SA6 -SB-2.5-3.5)							

# Surrogate Outlier Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

Method: 1625C

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-080911	N-Nitrosodimethylamine-d6	222	50.00-150.00	All Target Analytes	J (all detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-009-SA5DN-SB-4.0-5.0	DECACHLOROBIPHENYL	133	45.00-120.00	All Target Analytes	J(all detects)

# Field Duplicate RPD Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method:** 160.3M  
**Matrix:** SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
MOISTURE	9.8	10.9	11		No Qualifiers Applied

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

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
FLUORIDE	5.7	6.6	15	50.00	No Qualifiers Applied

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

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
ALUMINUM	16600	17900	8	50.00	No Qualifiers Applied
BORON	2.91	3.03	4	50.00	
CALCIUM	2500	2510	0	50.00	
IRON	18700	19000	2	50.00	
LITHIUM	17.7	18.5	4	50.00	
MAGNESIUM	3270	3500	7	50.00	
MANGANESE	137	166	19	50.00	
PHOSPHORUS	178	184	3	50.00	
POTASSIUM	2190	2270	4	50.00	
SODIUM	95.4	102	7	50.00	
STRONTIUM	17.0	18.8	10	50.00	
TIN	2.65	2.56	3	50.00	
TITANIUM	979	1040	6	50.00	
Zirconium	3.05	3.12	2	50.00	

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

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
ANTIMONY	0.236	0.190	22	50.00	No Qualifiers Applied
ARSENIC	5.33	6.39	18	50.00	
BARIUM	96.4	98.5	2	50.00	
BERYLLIUM	0.697	0.804	14	50.00	
CADMIUM	0.112	0.0779	36	50.00	
CHROMIUM	15.6	20.9	29	50.00	
COPPER	8.73	10.7	20	50.00	
LEAD	7.94	7.02	12	50.00	
MOLYBDENUM	0.603	0.409	38	50.00	
NICKEL	13.0	13.1	1	50.00	
SILVER	0.0481	0.0572	17	50.00	
THALLIUM	0.235	0.283	19	50.00	
VANADIUM	34.5	41.6	19	50.00	
ZINC	38.7	47.3	20	50.00	
COBALT	11.9	5.43	75	50.00	

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

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# Field Duplicate RPD Report

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
MERCURY	0.0232	0.0188	21	50.00	No Qualifiers Applied

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
BIS(2-ETHYLHEXYL)PHTHALATE	50	21	82	50.00	J(all detects)
Di-n-octylphthalate	20 U	52	200	50.00	UJ(all non-detects)

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
PH	7.93	8.11	2	50.00	No Qualifiers Applied

# Reporting Limit Outliers

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	BORON	J	0.0080	0.0500	PQL	mg/L	J (all detects)
	STRONTIUM	J	0.00053	0.0050	PQL	mg/L	

**Method:** 6020  
**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	LEAD	J	0.000083	0.0010	PQL	mg/L	J (all detects)

**Method:** 8260B  
**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	ACETONE	J	13	20	PQL	ug/L	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.094	1.0	PQL	ug/L	J (all detects)
	Butylbenzylphthalate	J	0.15	1.0	PQL	ug/L	
	Diethylphthalate	J	0.065	1.0	PQL	ug/L	
	Di-n-butylphthalate	J	0.16	1.0	PQL	ug/L	
	Di-n-octylphthalate	J	0.14	1.0	PQL	ug/L	
	NAPHTHALENE	J	0.048	0.051	PQL	ug/L	

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-9.0-10.0	Nitrate-NO3	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	Nitrate-NO3	J	1.5	1.7	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	BORON	J	3.03	5.56	PQL	mg/Kg	J (all detects)
	SODIUM	J	102	111	PQL	mg/Kg	
	TIN	J	2.56	11.1	PQL	mg/Kg	
	Zirconium	J	3.12	5.56	PQL	mg/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5DN-SB-4.0-5.0	BORON	J	2.91	5.33	PQL	mg/Kg	J (all detects)
	SODIUM	J	95.4	107	PQL	mg/Kg	
	TIN	J	2.65	10.7	PQL	mg/Kg	
	Zirconium	J	3.05	5.33	PQL	mg/Kg	
SL-009-SA5DN-SB-9.0-10.0	TIN	J	2.62	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.99	5.69	PQL	mg/Kg	
SL-011-SA5DN-SB-4.0-5.0	BORON	J	3.85	5.51	PQL	mg/Kg	J (all detects)
	TIN	J	2.64	11.0	PQL	mg/Kg	
	Zirconium	J	3.07	5.51	PQL	mg/Kg	
SL-012-SA5DN-SB-4.0-5.0	BORON	J	1.79	5.14	PQL	mg/Kg	J (all detects)
	TIN	J	1.46	10.3	PQL	mg/Kg	
SL-012-SA5DN-SB-9.0-10.0	BORON	J	4.59	5.70	PQL	mg/Kg	J (all detects)
	TIN	J	2.67	11.4	PQL	mg/Kg	
	Zirconium	J	3.92	5.70	PQL	mg/Kg	
SL-042-SA6-SB-2.5-3.5	BORON	J	3.86	5.32	PQL	mg/Kg	J (all detects)
	TIN	J	2.37	10.6	PQL	mg/Kg	
	Zirconium	J	2.54	5.32	PQL	mg/Kg	
SL-044-SA6-SB-2.5-3.5	BORON	J	3.14	5.81	PQL	mg/Kg	J (all detects)
	TIN	J	2.75	11.6	PQL	mg/Kg	
	Zirconium	J	1.87	5.81	PQL	mg/Kg	
SL-049-SA6-SB-2.5-3.5	BORON	J	2.80	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	90.3	105	PQL	mg/Kg	
	TIN	J	2.97	10.5	PQL	mg/Kg	
	Zirconium	J	2.30	5.27	PQL	mg/Kg	

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	ANTIMONY	J	0.190	0.220	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0779	0.110	PQL	mg/Kg	
	SILVER	J	0.0572	0.110	PQL	mg/Kg	
SL-009-SA5DN-SB-4.0-5.0	SILVER	J	0.0481	0.107	PQL	mg/Kg	J (all detects)
SL-009-SA5DN-SB-9.0-10.0	SELENIUM	J	0.107	0.459	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0668	0.115	PQL	mg/Kg	
SL-011-SA5DN-SB-4.0-5.0	SILVER	J	0.0419	0.110	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	CADMIUM	J	0.0708	0.103	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.129	0.411	PQL	mg/Kg	
	THALLIUM	J	0.0642	0.103	PQL	mg/Kg	
SL-012-SA5DN-SB-9.0-10.0	SILVER	J	0.0868	0.115	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	ANTIMONY	J	0.0926	0.213	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.143	0.426	PQL	mg/Kg	
	SILVER	J	0.0434	0.106	PQL	mg/Kg	
SL-044-SA6-SB-2.5-3.5	ANTIMONY	J	0.145	0.237	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.117	0.119	PQL	mg/Kg	
	SELENIUM	J	0.233	0.474	PQL	mg/Kg	
	SILVER	J	0.0587	0.119	PQL	mg/Kg	
SL-049-SA6-SB-2.5-3.5	ANTIMONY	J	0.174	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.212	0.430	PQL	mg/Kg	
	SILVER	J	0.0405	0.108	PQL	mg/Kg	

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

11/12/2011 10:55:12 AM

ADR version 1.4.0.111

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# Reporting Limit Outliers

Lab Reporting Batch ID: DE220

Laboratory: LL

EDD Filename: DE220\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method:** 7199  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.28	1.2	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-044-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.31	1.2	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.30	1.1	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	MERCURY	J	0.0188	0.112	PQL	mg/Kg	J (all detects)
SL-009-SA5DN-SB-4.0-5.0	MERCURY	J	0.0232	0.102	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	MERCURY	J	0.0123	0.100	PQL	mg/Kg	J (all detects)
SL-012-SA5DN-SB-9.0-10.0	MERCURY	J	0.0211	0.108	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	MERCURY	J	0.0259	0.102	PQL	mg/Kg	J (all detects)

**Method:** 8015M  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-9.0-10.0	EFH (C30-C40)	J	0.68	1.4	PQL	mg/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	EFH (C30-C40)	J	0.93	1.3	PQL	mg/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	EFH (C21-C30)	J	0.45	1.3	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5DN-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	20	PQL	ug/Kg	J (all detects)
SL-012-SA5DN-SB-4.0-5.0	Di-n-octylphthalate	J	11	19	PQL	ug/Kg	J (all detects)
SL-042-SA6-SB-2.5-3.5	CHRYSENE	J	0.69	1.8	PQL	ug/Kg	J (all detects)
SL-049-SA6-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.5	19	PQL	ug/Kg	J (all detects)

**Method:** 8315A  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA5DN-SB-4.0-5.0	FORMALDEHYDE	J	660	1600	PQL	ug/Kg	J (all detects)

LDC #: 2653314

## VALIDATION COMPLETENESS WORKSHEET

Date: 11/7/11

SDG #: DE220

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer:                     2nd Reviewer:                     

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N SW	Al, Ba, Fe, Mg, Ti > 4X
VII.	Duplicate Sample Analysis	N SW	Cd, Hg, Mo, Pb < 5X
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, Ni, V J/mJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB = 4

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

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

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

## Validated Samples:

1	SL-042-SA6-SB-2.5-3.5	11	SL-009-SA5DN-SB-4.0-5.0MS	21	31
2	SL-044-SA6-SB-2.5-3.5	12	SL-009-SA5DN-SB-4.0-5.0MSD	22	32
3	SL-049-SA6-SB-2.5-3.5	13	SL-009-SA5DN-SB-4.0-5.0DUP	23	33
4	EB-SA6-SB-080911	14		24	34
5	SL-011-SA5DN-SB-4.0-5.0	15		25	35
6	SL-012-SA5DN-SB-4.0-5.0	16		26	36
7	SL-012-SA5DN-SB-9.0-10.0	17		27	37
8	SL-009-SA5DN-SB-4.0-5.0	18		28	38
9	SL-009-SA5DN-SB-9.0-10.0	19		29	39
10	DUP24-SA5DN-QC-080911	20		30	40

Notes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

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

N N/A Were field blanks identified in this SDG?

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

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

**Sampling date:** 8/9/11 **Soil factor applied:** 100x

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

**Associated Samples:** All Soil

Analyte	Blank ID	Sample Identification																		
		1	2	3	5	6	8	10												
	4	Action Level																		
B	8.0	4.0	3.1	2.8	3.8	1.8	2.9	3.0												
Pb	0.083	0.0415																		
Sr	0.53	0.265																		

**CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:**  
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

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

PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: [Signature]

Sample Concentration units, unless otherwise noted: mg/Kg

Soil preparation factor applied: 200X

2nd Reviewer: [Signature]

Associated Samples: All Soil

Reason: B

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Limit	1	2	3	5	7	8	10
Sb			0.38	0.38	0.093	0.15	0.17	0.29	0.25	0.24	0.19
Be			0.057	0.057							

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



QUALITY ASSURANCE SUMMARY  
 FORM 5A (MS/MSD)  
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE  
 SDG No.: DE220  
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6371367BKG Matrix Spike Lab Sample ID: 6371368MS Matrix Spike Duplicate Lab Sample ID: 6371369MSD  
 % Solids for Sample: 90.2  
 Batch Id(s): P22408B, P22426A, P22211D

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C				%R	Q	%R	Q	%R	RPD
Aluminum		16645.2477		21213.5244		21871.1389		221.7295	219.5341	MG/KG	2060	2380	3			20P
Antimony	121	0.2356		0.8150		0.9745		1.2916	1.3172	MG/KG	45N	56N	18			75 - 125
Arsenic	75	5.3322		6.8542		7.1151		2.1527	2.1953	MG/KG	71N	81	4			75 - 125
Barium	137	96.4097		84.1065		85.3549		10.7636	10.9767	MG/KG	-114	-101	1			20MS
Beryllium	9	0.6967		1.4309		1.4753		0.8611	0.8781	MG/KG	85	89	3			75 - 125
Boron		2.9070	B	222.8038		221.0994		221.7295	219.5341	MG/KG	99	99	1			84 - 115
Cadmium	111	0.1116		1.1635		1.2783		1.0764	1.0977	MG/KG	98	106	9			75 - 125
Calcium		2501.0745		2935.3980		2897.5566		443.4590	439.0683	MG/KG	98	90	1			20P
Chromium	52	15.5850		26.4138		28.5394		10.7636	10.9767	MG/KG	101	118	8			75 - 125
Cobalt	59	11.9478		57.4990		63.4673		53.8178	54.8835	MG/KG	85	94	10			75 - 125
Copper	63	8.7285		18.7523		20.2718		10.7636	10.9767	MG/KG	93	105	8			75 - 125
Iron		18676.3890		19371.6297		20872.4177		110.8647	109.7671	MG/KG	627	2001	7			20P
Lead	208	7.9439		8.0834		9.0448		3.2291	3.2930	MG/KG	4N	33N	11			75 - 125
Lithium		17.7106		130.5177		130.2562		110.8647	109.7671	MG/KG	102	103	0			82 - 114
Magnesium		3272.6388		3811.5344		3876.4440		221.7295	219.5341	MG/KG	243	275	2			20P
Manganese		137.2186		226.4457		305.4049		55.4324	54.8835	MG/KG	161N	306N	30*			75 - 125
Mercury		0.0232	B	0.1992		0.1927		0.1732	0.1768	MG/KG	102	96	3			65 - 135
Molybdenum	98	0.6025		10.9422		12.2281		10.7636	10.9767	MG/KG	96	106	11			75 - 125
Nickel	60	12.9925		20.7070		22.4583		10.7636	10.9767	MG/KG	72N	86	8			75 - 125
Phosphorus		177.8708		317.7506		325.7448		110.8647	109.7671	MG/KG	126N	135N	2			75 - 125
Potassium		2188.3656		3560.4113		3585.9026		1108.6475	1097.6707	MG/KG	124	127N	1			75 - 125
Selenium	78	0.0618	U	2.0955		2.8056		2.1527	2.1953	MG/KG	97	128N	29*			75 - 125
Silver	107	0.0481	B	10.7184		11.8614		10.7636	10.9767	MG/KG	99	108	10			75 - 125
Sodium		95.4364	B	1159.8869		1160.3982		1108.6475	1097.6707	MG/KG	96	97	0			75 - 125
Strontium		16.9559		129.4867		129.6986		110.8647	109.7671	MG/KG	102	103	0			75 - 115
Thallium	203	0.2354		0.6906		0.7240		0.4305	0.4391	MG/KG	106	111	5			75 - 125
Tin		2.6469	B	406.2805		401.4511		443.4590	439.0683	MG/KG	91	91	1			80 - 110
Titanium		978.9144		1329.8215		1294.4140		110.8647	109.7671	MG/KG	317	287	3			20P
Vanadium	51	34.4534		42.9036		45.7290		10.7636	10.9767	MG/KG	79	103	6			75 - 125
Zinc	66	38.6747		46.3049		49.9440		10.7636	10.9767	MG/KG	71N	103	8			75 - 125
Zirconium		3.0509	B	113.1009		112.1161		110.8647	109.7671	MG/KG	99	99	1			75 - 125

Pb post spike = 69% (O/R)

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



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE220

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6371367BKG

Duplicate Lab Sample ID: 6371370DUP

% Solids for Duplicate: 90.0

% Solids for Sample: 90.2

Batch ID(s): P22408B, P22426A, P22211D

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			16645.2477		16920.8947		2		P
Antimony	121	0.2	0.2356		0.2068	B	13		MS
Arsenic	75		5.3322		6.4745		19		MS
Barium	137		96.4097		97.2727		1		MS
Beryllium	9		0.6967		0.7381		6		MS
Boron			2.9070	B	2.8836	B	1		P
Cadmium	111	0.1	0.1116		0.0717	B	44		MS
Calcium			2501.0745		2257.8304		10		P
Chromium	52		15.5850		22.1042		35	*	MS
Cobalt	59		11.9478		6.1375		64	*	MS
Copper	63		8.7285		10.9889		23	*	MS
Iron			18676.3890		17822.6264		5		P
Lead	208		7.9439		7.2882		9		MS
Lithium			17.7106		17.7118		0		P
Magnesium			3272.6388		3272.3104		0		P
Manganese			137.2186		161.8326		16		P
Mercury			0.0232	B	0.0139	B	50		CV
Molybdenum	98	0.1	0.6025		0.4876		21		MS
Nickel	60		12.9925		13.9246		7		MS
Phosphorus			177.8708		190.0100		7		P
Potassium			2188.3656		2163.4756		1		P
Selenium	78		0.0618	U	0.0643	U			MS
Silver	107		0.0481	B	0.0529	B	10		MS
Sodium			95.4364	B	94.8149	B	1		P
Strontium			16.9559		16.7971		1		P
Thallium	203	0.1	0.2354		0.2976		23		MS
Tin			2.6469	B	2.4224	B	9		P
Titanium			978.9144		993.6153		1		P
Vanadium	51		34.4534		43.4590		23	*	MS
Zinc	66		38.6747		48.8470		23	*	MS
Zirconium			3.0509	B	3.5410	B	15		P

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

DE220 4812

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

**DE221**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3050B	6010B	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3050B	6020	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3060A	7199	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8082	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8270C	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	3550B	8270C SIM	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	300.0	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372836	N	METHOD	7471A	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3050B	6010B	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3050B	6020	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3060A	7199	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8082	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8270C	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	3550B	8270C SIM	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	300.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372837	N	METHOD	7471A	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0DUP	P372837D270303B	DUP	METHOD	314.0	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0MS	P372837R270350B	MS	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3050B	6010B	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3050B	6020	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3060A	7199	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8082	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8270C	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	3550B	8270C SIM	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	300.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	6850	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372830	N	METHOD	7471A	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0DUP	P372830D272204A	DUP	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0MS	P372830R272227A	MS	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3050B	6010B	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3050B	6020	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3060A	7199	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8082	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8270C	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	3550B	8270C SIM	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	300.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	314.0	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372831	N	METHOD	7471A	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3050B	6010B	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3050B	6020	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3060A	7199	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8082	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8270C	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	3550B	8270C SIM	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	300.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	314.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372826	N	METHOD	7471A	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0DU	P372826D270011A	DUP	METHOD	300.0	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0MS	P372826R260049	MS	3550B	8270C SIM	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0MS	P372826R270025A	MS	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3050B	6010B	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3050B	6020	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3060A	7199	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8082	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8270C	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	3550B	8270C SIM	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	314.0	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372834	N	METHOD	7471A	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3050B	6010B	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3050B	6020	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3060A	7199	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8082	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8270C	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	3550B	8270C SIM	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	300.0	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	314.0	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372835	N	METHOD	7471A	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3050B	6010B	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3050B	6020	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3060A	7199	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8082	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8270C	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	3550B	8270C SIM	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	300.0	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	314.0	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	6850	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372827	N	METHOD	7471A	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0MS	P372827R241713A	MS	METHOD	6850	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3050B	6010B	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3050B	6020	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3060A	7199	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8082	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8270C	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	3550B	8270C SIM	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	300.0	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	314.0	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372828	N	METHOD	7471A	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3050B	6010B	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3050B	6020	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3060A	7199	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8082	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8270C	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	3550B	8270C SIM	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	300.0	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	314.0	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372832	N	METHOD	7471A	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3050B	6010B	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3050B	6020	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3060A	7199	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8082	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8270C	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	3550B	8270C SIM	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	300.0	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	314.0	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372833	N	METHOD	7471A	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3050B	6010B	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3050B	6020	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3060A	7199	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8082	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8270C	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	3550B	8270C SIM	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	300.0	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	314.0	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372829	N	METHOD	7471A	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	GENCHEM	
<b>Method:</b>	300.0	<b>Matrix:</b> SO

<b>Sample ID:</b> SL-007-SA5DN-SB-4.0-5.0		<b>Collected:</b> 8/10/2011 9:20:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	4.5		0.94	MDL	1.2	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-071-SA5DN-SB-4.0-5.0		<b>Collected:</b> 8/10/2011 11:19:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	10.9		0.94	MDL	1.2	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-071-SA5DN-SB-9.0-10.0		<b>Collected:</b> 8/10/2011 11:57:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	6.5		0.91	MDL	1.1	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-072-SA5DN-SB-4.0-5.0		<b>Collected:</b> 8/10/2011 2:35:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.9		0.97	MDL	1.2	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-151-SA6-SB-4.0-5.0		<b>Collected:</b> 8/10/2011 8:59:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.87	MDL	1.1	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-151-SA6-SB-9.0-10.0		<b>Collected:</b> 8/10/2011 9:00:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.91	U	0.91	MDL	1.1	PQL	mg/Kg	UJ	Q

<b>Sample ID:</b> SL-182-SA6-SB-4.0-5.0		<b>Collected:</b> 8/10/2011 12:45:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.0		0.86	MDL	1.1	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-182-SA6-SB-9.0-10.0		<b>Collected:</b> 8/10/2011 12:49:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1	J	0.91	MDL	1.1	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	GENCHEM	
<b>Method:</b>	300.0	<b>Matrix:</b> SO

Sample ID: SL-183-SA6-SB-4.0-5.0      Collected: 8/10/2011 10:25:00      Analysis Type: RES      Dilution: 1

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

Sample ID: SL-183-SA6-SB-9.0-10.0      Collected: 8/10/2011 10:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: SL-007-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 9:20:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.04	J	0.367	MDL	11.5	PQL	mg/Kg	U	B
Zirconium	3.90	J	0.527	MDL	5.73	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 11:19:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.94	J	0.365	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	3.77	J	0.524	MDL	5.70	PQL	mg/Kg	J	Z

Sample ID: SL-071-SA5DN-SB-9.0-10.0      Collected: 8/10/2011 11:57:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.45	J	0.406	MDL	5.64	PQL	mg/Kg	J	Z
TIN	2.94	J	0.361	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.08	J	0.519	MDL	5.64	PQL	mg/Kg	U	B

Sample ID: SL-072-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 2:35:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.16	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.03	J	0.526	MDL	5.72	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: SL-151-SA6-SB-4.0-5.0      Collected: 8/10/2011 8:59:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.80	J	0.376	MDL	5.23	PQL	mg/Kg	J	Z
SODIUM	82.2	J	6.22	MDL	105	PQL	mg/Kg	J	Z
TIN	2.50	J	0.334	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.43	J	0.481	MDL	5.23	PQL	mg/Kg	U	B

Sample ID: SL-151-SA6-SB-9.0-10.0      Collected: 8/10/2011 9:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.64	J	0.396	MDL	5.50	PQL	mg/Kg	J	Z
TIN	3.18	J	0.352	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	2.59	J	0.506	MDL	5.50	PQL	mg/Kg	U	B

Sample ID: SL-182-SA6-SB-4.0-5.0      Collected: 8/10/2011 12:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.02	J	0.371	MDL	5.15	PQL	mg/Kg	J	Z
SODIUM	91.3	J	6.13	MDL	103	PQL	mg/Kg	J	Z
TIN	2.69	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	2.42	J	0.474	MDL	5.15	PQL	mg/Kg	U	B

Sample ID: SL-182-SA6-SB-9.0-10.0      Collected: 8/10/2011 12:49:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.12	J	0.399	MDL	5.54	PQL	mg/Kg	J	Z
TIN	3.00	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.54	J	0.510	MDL	5.54	PQL	mg/Kg	U	B

Sample ID: SL-183-SA6-SB-4.0-5.0      Collected: 8/10/2011 10:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.71	J	0.392	MDL	5.45	PQL	mg/Kg	J	Z
TIN	2.93	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	2.29	J	0.501	MDL	5.45	PQL	mg/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: SL-183-SA6-SB-9.0-10.0      Collected: 8/10/2011 10:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.09	J	0.398	MDL	5.53	PQL	mg/Kg	J	Z
TIN	3.05	J	0.354	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.23	J	0.509	MDL	5.53	PQL	mg/Kg	U	B

Sample ID: SL-185-SA6-SB-4.0-5.0      Collected: 8/10/2011 7:49:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.55	J	0.388	MDL	5.39	PQL	mg/Kg	J	Z
SODIUM	104	J	6.42	MDL	108	PQL	mg/Kg	J	Z
TIN	2.90	J	0.345	MDL	10.8	PQL	mg/Kg	U	B
Zirconium	2.37	J	0.496	MDL	5.39	PQL	mg/Kg	U	B

Sample ID: SL-185-SA6-SB-9.0-10.0      Collected: 8/10/2011 7:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.85	J	0.401	MDL	5.57	PQL	mg/Kg	J	Z
SODIUM	96.8	J	6.63	MDL	111	PQL	mg/Kg	J	Z
TIN	3.03	J	0.357	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.02	J	0.513	MDL	5.57	PQL	mg/Kg	U	B

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-007-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 9:20:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0780	J	0.0659	MDL	0.454	PQL	mg/Kg	J	Z

Sample ID: SL-007-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 9:20:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.156	J	0.0840	MDL	0.227	PQL	mg/Kg	J	Z, Q
SILVER	0.0561	J	0.0161	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	64.6		0.0250	MDL	0.114	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS								
<b>Method:</b>	6020			<b>Matrix:</b> SO					

Sample ID: SL-071-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 11:19:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.109	J	0.0844	MDL	0.228	PQL	mg/Kg	J	Z, Q
SILVER	0.0714	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	61.1		0.0251	MDL	0.114	PQL	mg/Kg	J	Q

Sample ID: SL-071-SA5DN-SB-9.0-10.0      Collected: 8/10/2011 11:57:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.110	J	0.0835	MDL	0.226	PQL	mg/Kg	J	Z, Q
CADMIUM	0.0623	J	0.0496	MDL	0.113	PQL	mg/Kg	J	Z
SILVER	0.0549	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	43.5		0.0248	MDL	0.113	PQL	mg/Kg	J	Q

Sample ID: SL-072-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 2:35:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0880	U	0.0880	MDL	0.238	PQL	mg/Kg	UJ	Q
SILVER	0.0708	J	0.0169	MDL	0.119	PQL	mg/Kg	J	Z
VANADIUM	54.9		0.0262	MDL	0.119	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-4.0-5.0      Collected: 8/10/2011 8:59:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0773	U	0.0773	MDL	0.209	PQL	mg/Kg	UJ	Q
SILVER	0.0378	J	0.0148	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	38.7		0.0230	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-151-SA6-SB-9.0-10.0      Collected: 8/10/2011 9:00:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0903	J	0.0813	MDL	0.220	PQL	mg/Kg	J	Z, Q
SILVER	0.0400	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	42.4		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-182-SA6-SB-4.0-5.0      Collected: 8/10/2011 12:45:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0631	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SB-4.0-5.0      Collected: 8/10/2011 12:45:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0793	U	0.0793	MDL	0.214	PQL	mg/Kg	UJ	Q
CADMIUM	0.0585	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z
SILVER	0.0468	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z
VANADIUM	36.9		0.0236	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-182-SA6-SB-9.0-10.0      Collected: 8/10/2011 12:49:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0788	J	0.0649	MDL	0.448	PQL	mg/Kg	J	Z

Sample ID: SL-182-SA6-SB-9.0-10.0      Collected: 8/10/2011 12:49:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0828	U	0.0828	MDL	0.224	PQL	mg/Kg	UJ	Q
SILVER	0.0581	J	0.0159	MDL	0.112	PQL	mg/Kg	J	Z
VANADIUM	43.4		0.0246	MDL	0.112	PQL	mg/Kg	J	Q

Sample ID: SL-183-SA6-SB-4.0-5.0      Collected: 8/10/2011 10:25:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0727	J	0.0638	MDL	0.440	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-4.0-5.0      Collected: 8/10/2011 10:25:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0814	U	0.0814	MDL	0.220	PQL	mg/Kg	UJ	Q
CADMIUM	0.0845	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
SILVER	0.0610	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	44.4		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-183-SA6-SB-9.0-10.0      Collected: 8/10/2011 10:30:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0693	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-9.0-10.0      Collected: 8/10/2011 10:30:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0811	U	0.0811	MDL	0.219	PQL	mg/Kg	UJ	Q
SILVER	0.0337	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	39.2		0.0241	MDL	0.110	PQL	mg/Kg	J	Q

Sample ID: SL-185-SA6-SB-4.0-5.0      Collected: 8/10/2011 7:49:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0806	U	0.0806	MDL	0.218	PQL	mg/Kg	UJ	Q
CADMIUM	0.0714	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z
SILVER	0.0707	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z
VANADIUM	43.3		0.0240	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-185-SA6-SB-9.0-10.0      Collected: 8/10/2011 7:50:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0825	U	0.0825	MDL	0.223	PQL	mg/Kg	UJ	Q
SILVER	0.0326	J	0.0158	MDL	0.111	PQL	mg/Kg	J	Z
VANADIUM	37.5		0.0245	MDL	0.111	PQL	mg/Kg	J	Q

<b>Method Category:</b>	METALS	
<b>Method:</b>	7199	<b>Matrix:</b> SO

Sample ID: SL-007-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 9:20:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.69	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	<b>Method:</b>	7199	<b>Matrix:</b>	SO
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Sample ID: SL-071-SA5DN-SB-9.0-10.0      Collected: 8/10/2011 11:57:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	1.0	J	0.23	MDL	1.2	PQL	mg/Kg	J	Z

Sample ID: SL-151-SA6-SB-4.0-5.0      Collected: 8/10/2011 8:59:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-4.0-5.0      Collected: 8/10/2011 10:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-183-SA6-SB-9.0-10.0      Collected: 8/10/2011 10:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.50	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

<b>Method Category:</b>	METALS	<b>Method:</b>	7471A	<b>Matrix:</b>	SO
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Sample ID: SL-071-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 11:19:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0091	J	0.0082	MDL	0.116	PQL	mg/Kg	J	Z

Sample ID: SL-072-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 2:35:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0091	J	0.0083	MDL	0.118	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	8082	<b>Matrix:</b>	SO
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Sample ID: SL-007-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 9:20:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.8	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z
AROCLOR 1260	0.72	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z

Sample ID: SL-072-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 2:35:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.9	J	0.39	MDL	2.0	PQL	ug/Kg	J	Z, S
AROCLOR 1260	1.0	J	0.46	MDL	2.0	PQL	ug/Kg	J	Z, S

Sample ID: SL-185-SA6-SB-9.0-10.0      Collected: 8/10/2011 7:50:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.63	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z, S

<b>Method Category:</b>	SVOA	<b>Method:</b>	8270C SIM	<b>Matrix:</b>	SO
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Sample ID: SL-071-SA5DN-SB-4.0-5.0      Collected: 8/10/2011 11:19:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.55	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
ANTHRACENE	1.6	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.90	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.3	J	0.39	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.6	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	1.1	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.5	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.2	J	0.78	MDL	1.9	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DE221

# Method Blank Outlier Report

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408DB221719	8/17/2011 5:19:00 PM	CALCIUM IRON PHOSPHORUS STRONTIUM TIN	7.06 mg/Kg 3.13 mg/Kg 1.34 mg/Kg 0.0390 mg/Kg 1.93 mg/Kg	SL-007-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0 SL-072-SA5DN-SB-4.0-5.0 SL-151-SA6-SB-4.0-5.0 SL-151-SA6-SB-9.0-10.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0 SL-185-SA6-SB-4.0-5.0 SL-185-SA6-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-007-SA5DN-SB-4.0-5.0(RES)	TIN	3.04 mg/Kg	3.04U mg/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	TIN	3.16 mg/Kg	3.16U mg/Kg
SL-151-SA6-SB-4.0-5.0(RES)	TIN	2.50 mg/Kg	2.50U mg/Kg
SL-151-SA6-SB-9.0-10.0(RES)	TIN	3.18 mg/Kg	3.18U mg/Kg
SL-182-SA6-SB-4.0-5.0(RES)	TIN	2.69 mg/Kg	2.69U mg/Kg
SL-182-SA6-SB-9.0-10.0(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-183-SA6-SB-4.0-5.0(RES)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-183-SA6-SB-9.0-10.0(RES)	TIN	3.05 mg/Kg	3.05U mg/Kg
SL-185-SA6-SB-4.0-5.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg
SL-185-SA6-SB-9.0-10.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 6850**  
**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-071-SA5DN-SB-4.0-5.0MSD (SL-071-SA5DN-SB-4.0-5.0)	PERCHLORATE	-	123	80.00-120.00	-	PERCHLORATE	J (all detects)

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-007-SA5DN-SB-4.0-5.0MS (SL-007-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0 SL-072-SA5DN-SB-4.0-5.0 SL-151-SA6-SB-4.0-5.0 SL-151-SA6-SB-9.0-10.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0)	FLUORIDE	58	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

# Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-007-SA5DN-SB-4.0-5.0DUP (SL-007-SA5DN-SB-4.0-5.0 SL -071-SA5DN-SB-4.0-5.0 SL -071-SA5DN-SB-9.0-10.0 SL -072-SA5DN-SB-4.0-5.0 SL -151-SA6-SB-4.0-5.0 SL -151-SA6-SB-9.0-10.0 SL -182-SA6-SB-4.0-5.0 SL -182-SA6-SB-9.0-10.0 SL -183-SA6-SB-4.0-5.0 SL -183-SA6-SB-9.0-10.0)	FLUORIDE	29	20.00	No Qual, OK by Difference

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 8082  
**Matrix:** SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12341AY241914A (SL-007-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0 SL-072-SA5DN-SB-4.0-5.0 SL-151-SA6-SB-4.0-5.0 SL-151-SA6-SB-9.0-10.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0 SL-185-SA6-SB-4.0-5.0 SL-185-SA6-SB-9.0-10.0)	Aroclor 5442	-	114	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J (all detects)

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408DQ221723 (SL-007-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-4.0-5.0 SL-071-SA5DN-SB-9.0-10.0 SL-072-SA5DN-SB-4.0-5.0 SL-151-SA6-SB-4.0-5.0 SL-151-SA6-SB-9.0-10.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0 SL-185-SA6-SB-4.0-5.0 SL-185-SA6-SB-9.0-10.0)	ALUMINUM IRON TITANIUM	141 136 180	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC Limits

# Surrogate Outlier Report

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 8082  
**Matrix:** SO

<i>Sample ID</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
SL-072-SA5DN-SB-4.0-5.0	TETRACHLORO-M-XYLENE	173	53.00-139.00	All Target Analytes	J (all detects)
SL-151-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	156	45.00-120.00	All Target Analytes	J(all detects)
	TETRACHLORO-M-XYLENE	167	53.00-139.00		
SL-182-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	129	45.00-120.00	All Target Analytes	J(all detects)
	TETRACHLORO-M-XYLENE	140	53.00-139.00		
SL-183-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	125	45.00-120.00	All Target Analytes	J(all detects)
SL-185-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	169	45.00-120.00	All Target Analytes	J(all detects)
	TETRACHLORO-M-XYLENE	155	53.00-139.00		
SL-185-SA6-SB-9.0-10.0	DECACHLOROBIPHENYL	145	45.00-120.00	All Target Analytes	J(all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 6010B

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	TIN	J	3.04	11.5	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.90	5.73	PQL	mg/Kg	
SL-071-SA5DN-SB-4.0-5.0	TIN	J	2.94	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.77	5.70	PQL	mg/Kg	
SL-071-SA5DN-SB-9.0-10.0	BORON	J	5.45	5.64	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	11.3	PQL	mg/Kg	
	Zirconium	J	3.08	5.64	PQL	mg/Kg	
SL-072-SA5DN-SB-4.0-5.0	TIN	J	3.16	11.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.03	5.72	PQL	mg/Kg	
SL-151-SA6-SB-4.0-5.0	BORON	J	4.80	5.23	PQL	mg/Kg	J (all detects)
	SODIUM	J	82.2	105	PQL	mg/Kg	
	TIN	J	2.50	10.5	PQL	mg/Kg	
	Zirconium	J	2.43	5.23	PQL	mg/Kg	
SL-151-SA6-SB-9.0-10.0	BORON	J	3.64	5.50	PQL	mg/Kg	J (all detects)
	TIN	J	3.18	11.0	PQL	mg/Kg	
	Zirconium	J	2.59	5.50	PQL	mg/Kg	
SL-182-SA6-SB-4.0-5.0	BORON	J	4.02	5.15	PQL	mg/Kg	J (all detects)
	SODIUM	J	91.3	103	PQL	mg/Kg	
	TIN	J	2.69	10.3	PQL	mg/Kg	
	Zirconium	J	2.42	5.15	PQL	mg/Kg	
SL-182-SA6-SB-9.0-10.0	BORON	J	4.12	5.54	PQL	mg/Kg	J (all detects)
	TIN	J	3.00	11.1	PQL	mg/Kg	
	Zirconium	J	2.54	5.54	PQL	mg/Kg	
SL-183-SA6-SB-4.0-5.0	BORON	J	4.71	5.45	PQL	mg/Kg	J (all detects)
	TIN	J	2.93	10.9	PQL	mg/Kg	
	Zirconium	J	2.29	5.45	PQL	mg/Kg	
SL-183-SA6-SB-9.0-10.0	BORON	J	4.09	5.53	PQL	mg/Kg	J (all detects)
	TIN	J	3.05	11.1	PQL	mg/Kg	
	Zirconium	J	2.23	5.53	PQL	mg/Kg	
SL-185-SA6-SB-4.0-5.0	BORON	J	4.55	5.39	PQL	mg/Kg	J (all detects)
	SODIUM	J	104	108	PQL	mg/Kg	
	TIN	J	2.90	10.8	PQL	mg/Kg	
	Zirconium	J	2.37	5.39	PQL	mg/Kg	
SL-185-SA6-SB-9.0-10.0	BORON	J	3.85	5.57	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.8	111	PQL	mg/Kg	
	TIN	J	3.03	11.1	PQL	mg/Kg	
	Zirconium	J	2.02	5.57	PQL	mg/Kg	

**Method:** 6020

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.156	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0780	0.454	PQL	mg/Kg	
	SILVER	J	0.0561	0.114	PQL	mg/Kg	
SL-071-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.109	0.228	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0714	0.114	PQL	mg/Kg	
SL-071-SA5DN-SB-9.0-10.0	ANTIMONY	J	0.110	0.226	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0623	0.113	PQL	mg/Kg	
	SILVER	J	0.0549	0.113	PQL	mg/Kg	
SL-072-SA5DN-SB-4.0-5.0	SILVER	J	0.0708	0.119	PQL	mg/Kg	J (all detects)

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

# Reporting Limit Outliers

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-151-SA6-SB-4.0-5.0	SILVER	J	0.0378	0.105	PQL	mg/Kg	J (all detects)
SL-151-SA6-SB-9.0-10.0	ANTIMONY SILVER	J J	0.0903 0.0400	0.220 0.110	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-182-SA6-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J J J	0.0585 0.0631 0.0468	0.107 0.429 0.107	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-182-SA6-SB-9.0-10.0	SELENIUM SILVER	J J	0.0788 0.0581	0.448 0.112	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-183-SA6-SB-4.0-5.0	CADMIUM SELENIUM SILVER	J J J	0.0845 0.0727 0.0610	0.110 0.440 0.110	PQL PQL PQL	mg/Kg mg/Kg mg/Kg	J (all detects)
SL-183-SA6-SB-9.0-10.0	SELENIUM SILVER	J J	0.0693 0.0337	0.438 0.110	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-185-SA6-SB-4.0-5.0	CADMIUM SILVER	J J	0.0714 0.0707	0.109 0.109	PQL PQL	mg/Kg mg/Kg	J (all detects)
SL-185-SA6-SB-9.0-10.0	SILVER	J	0.0326	0.111	PQL	mg/Kg	J (all detects)

**Method:** 7199  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.69	1.2	PQL	mg/Kg	J (all detects)
SL-071-SA5DN-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	1.0	1.2	PQL	mg/Kg	J (all detects)
SL-151-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-183-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)
SL-183-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.50	1.1	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-071-SA5DN-SB-4.0-5.0	MERCURY	J	0.0091	0.116	PQL	mg/Kg	J (all detects)
SL-072-SA5DN-SB-4.0-5.0	MERCURY	J	0.0091	0.118	PQL	mg/Kg	J (all detects)

**Method:** 8082  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA5DN-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	1.8 0.72	2.0 2.0	PQL PQL	ug/Kg ug/Kg	J (all detects)
SL-072-SA5DN-SB-4.0-5.0	AROCLOR 1254 AROCLOR 1260	J J	1.9 1.0	2.0 2.0	PQL PQL	ug/Kg ug/Kg	J (all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE221

Laboratory: LL

EDD Filename: DE221\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 8082

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA6-SB-9.0-10.0	AROCLOR 1254	J	0.63	1.9	PQL	ug/Kg	J (all detects)

**Method:** 8270C SIM

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-071-SA5DN-SB-4.0-5.0	ACENAPHTHYLENE	J	0.55	1.9	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	1.6	1.9	PQL	ug/Kg	
	BENZO(A)ANTHRACENE	J	0.90	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.3	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.6	1.9	PQL	ug/Kg	
	FLUORENE	J	1.1	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.5	1.9	PQL	ug/Kg	
	PYRENE	J	1.2	1.9	PQL	ug/Kg	

LDC #: 26533J4  
 SDG #: DE221  
 Laboratory: Lancaster Laboratories

**VALIDATION COMPLETENESS WORKSHEET**  
 ADR

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

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	NSW	see 02/11/11
VII.	Duplicate Sample Analysis	NA	
VIII.	Laboratory Control Samples (LCS)	NA	SKM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	-	

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

Validated Samples: 5-11

1	SL-007-SA5DN-SB-4.0-5.0	11	SL-185-SA6-SB-4.0-5.0	21	31
2	SL-071-SA5DN-SB-4.0-5.0	12	SL-185-SA6-SB-9.0-10.0	22	32
3	SL-071-SA5DN-SB-9.0-10.0	13		23	33
4	SL-072-SA5DN-SB-4.0-5.0	14		24	34
5	SL-151-SA6-SB-4.0-5.0	15		25	35
6	SL-151-SA6-SB-9.0-10.0	16		26	36
7	SL-182-SA6-SB-4.0-5.0	17		27	37
8	SL-182-SA6-SB-9.0-10.0	18		28	38
9	SL-183-SA6-SB-4.0-5.0	19		29	39
10	SL-183-SA6-SB-9.0-10.0	20		30	40

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**VALIDATION FINDINGS WORKSHEET**  
**PB/ICB/CCB QUALIFIED SAMPLES**

**METHOD:** Trace metals (EPA SW 864 Method 6010B/6020/7000)  
 Sample Concentration units, unless otherwise noted: mg/Kg

Soil preparation factor applied: ICP:100X, ICP/MS: 200X  
 Associated Samples: All Soil Reason: B

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Limit	3	5	6	7	8	9	10	11	12
Zr			6.7	3.35	3.1	2.4	2.6	2.4	2.5	2.3	2.2	2.4	2.0

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

# **SAMPLE DELIVERY GROUP**

**DE222**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	TB-081111	6374017	TB	5030B	8015M	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3050B	6010B	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3050B	6020	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3060A	7199	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8082	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8270C	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	3550B	8270C SIM	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	300.0	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	314.0	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374007	N	METHOD	7471A	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3050B	6010B	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3050B	6020	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3060A	7199	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8082	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8270C	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	3550B	8270C SIM	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	300.0	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	314.0	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	6850	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374008	N	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review  
IV = EPA Level 4 Data Validation

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374010	N	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	3550B	8270C SIM	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374011	MS	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8082	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8270C	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	3550B	8270C SIM	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374012	MSD	METHOD	7471A	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3050B	6010B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3050B	6020	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	3060A	7199	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	300.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	314.0	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0DUP	6374013	DUP	METHOD	7471A	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3050B	6010B	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3050B	6020	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3060A	7199	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8082	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8270C	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	3550B	8270C SIM	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	300.0	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	314.0	III
11-Aug-2011	DUP24-SA6-QC-081111	6374016	FD	METHOD	7471A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3050B	6010B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3050B	6020	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3060A	7199	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3546	1625C	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8015B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8082	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8270C	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	3550B	8270C SIM	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	5035	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	8330	8330A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	300.0	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	314.0	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	7471A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8015B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8015M	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	8315A	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374009	N	METHOD	9012B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0MS	P374009R241837A	MS	METHOD	8315A	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0MS	P374009R262226	MS	3546	1625C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3005A	6010B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3020A	6020	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8015B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8082	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8270C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3510C	8270C SIM	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	3520C	1625C	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8260B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	5030B	8260B SIM	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	8330	8330A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	300.0	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	314.0	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	7199	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	8015B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	Gen Prep	8015M	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	7470A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	8315A	III
11-Aug-2011	EB-SA5DN-SB-081111	6374018	EB	METHOD	9012B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3050B	6010B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3050B	6020	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3060A	7199	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8015M	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8082	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8270C	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	3550B	8270C SIM	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	5035	8015M	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	300.0	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	314.0	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	7471A	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	8015B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374015	N	METHOD	8015M	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3050B	6010B	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3050B	6020	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3060A	7199	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8082	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8270C	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	3550B	8270C SIM	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	300.0	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	314.0	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	6850	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374014	N	METHOD	7471A	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	GENCHEM	
<b>Method:</b>	300.0	<b>Matrix:</b> SO

<b>Sample ID:</b> DUP24-SA6-QC-081111		<b>Collected:</b> 8/11/2011 10:15:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.86	MDL	1.1	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-006-SA5DN-SB-4.0-5.0		<b>Collected:</b> 8/11/2011 8:20:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	15.8		0.92	MDL	1.2	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-006-SA5DN-SB-9.0-10.0		<b>Collected:</b> 8/11/2011 9:10:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.7		0.89	MDL	1.1	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-033-SA6-SB-2.5-3.5		<b>Collected:</b> 8/11/2011 2:40:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.9		0.84	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.88	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

<b>Sample ID:</b> SL-155-SA6-SB-4.0-5.0		<b>Collected:</b> 8/11/2011 10:09:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.3		0.84	MDL	1.0	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-174-SA6-SB-2.0-3.0		<b>Collected:</b> 8/11/2011 2:46:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.85	MDL	1.1	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-207-SA5DN-SB-4.0-5.0		<b>Collected:</b> 8/11/2011 10:55:00		<b>Analysis Type:</b> RES		<b>Dilution:</b> 1			
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	24.4		0.93	MDL	1.2	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	GENCHEM	
<b>Method:</b>	314.0	<b>Matrix:</b> AQ

Sample ID: EB-SA5DN-SB-081111      Collected: 8/11/2011 12:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PERCHLORATE	0.70	U	0.70	MDL	2.0	PQL	ug/L	UJ	L

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> AQ

Sample ID: EB-SA5DN-SB-081111      Collected: 8/11/2011 12:30:00      Analysis Type: REA2      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.0055	J	0.0022	MDL	0.0500	PQL	mg/L	U	B

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: DUP24-SA6-QC-081111      Collected: 8/11/2011 10:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.96	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z
SODIUM	87.4	J	6.26	MDL	105	PQL	mg/Kg	J	Z
TIN	2.81	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.33	J	0.484	MDL	5.26	PQL	mg/Kg	UJ	FD, B

Sample ID: SL-006-SA5DN-SB-4.0-5.0      Collected: 8/11/2011 8:20:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.14	J	0.362	MDL	11.3	PQL	mg/Kg	U	B
Zirconium	3.31	J	0.520	MDL	5.65	PQL	mg/Kg	U	B

Sample ID: SL-006-SA5DN-SB-9.0-10.0      Collected: 8/11/2011 9:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.03	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	3.59	J	0.501	MDL	5.45	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: SL-033-SA6-SB-2.5-3.5      Collected: 8/11/2011 2:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.23	J	0.366	MDL	5.09	PQL	mg/Kg	J	Z
SODIUM	68.4	J	6.05	MDL	102	PQL	mg/Kg	J	Z
TIN	2.68	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.62	J	0.468	MDL	5.09	PQL	mg/Kg	U	B

Sample ID: SL-155-SA6-SB-4.0-5.0      Collected: 8/11/2011 10:09:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.32	J	0.378	MDL	5.24	PQL	mg/Kg	J	Z
SODIUM	86.9	J	6.24	MDL	105	PQL	mg/Kg	J	Z
TIN	2.78	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	4.48	J	0.482	MDL	5.24	PQL	mg/Kg	J	Z, FD

Sample ID: SL-174-SA6-SB-2.0-3.0      Collected: 8/11/2011 2:46:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.30	J	0.371	MDL	5.16	PQL	mg/Kg	J	Z
TIN	2.81	J	0.330	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	1.34	J	0.474	MDL	5.16	PQL	mg/Kg	U	B

Sample ID: SL-207-SA5DN-SB-4.0-5.0      Collected: 8/11/2011 10:55:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	3.07	J	0.351	MDL	11.0	PQL	mg/Kg	U	B
Zirconium	4.18	J	0.505	MDL	5.49	PQL	mg/Kg	J	Z

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> AQ

Sample ID: EB-SA5DN-SB-081111      Collected: 8/11/2011 12:30:00      Analysis Type: REA4      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	0.00011	J	0.00008 0	MDL	0.0010	PQL	mg/L	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

<b>Sample ID:</b> DUP24-SA6-QC-081111		<b>Collected:</b> 8/11/2011 10:15:00		<b>Analysis Type:</b> REA			<b>Dilution:</b> 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

<b>Sample ID:</b> DUP24-SA6-QC-081111		<b>Collected:</b> 8/11/2011 10:15:00		<b>Analysis Type:</b> RES			<b>Dilution:</b> 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q, FD
CADMIUM	0.0459	U	0.0459	MDL	0.104	PQL	mg/Kg	UJ	FD
SILVER	0.0421	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	37.2		0.0229	MDL	0.104	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-006-SA5DN-SB-4.0-5.0		<b>Collected:</b> 8/11/2011 8:20:00		<b>Analysis Type:</b> RES			<b>Dilution:</b> 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0836	MDL	0.226	PQL	mg/Kg	J	Z, Q
CADMIUM	0.107	J	0.0497	MDL	0.113	PQL	mg/Kg	J	Z
SILVER	0.0487	J	0.0160	MDL	0.113	PQL	mg/Kg	J	Z
VANADIUM	55.4		0.0249	MDL	0.113	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-006-SA5DN-SB-9.0-10.0		<b>Collected:</b> 8/11/2011 9:10:00		<b>Analysis Type:</b> RES			<b>Dilution:</b> 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0815	U	0.0815	MDL	0.220	PQL	mg/Kg	UJ	Q
CADMIUM	0.0976	J	0.0484	MDL	0.110	PQL	mg/Kg	J	Z
SILVER	0.0241	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z
VANADIUM	49.2		0.0242	MDL	0.110	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-033-SA6-SB-2.5-3.5		<b>Collected:</b> 8/11/2011 2:40:00		<b>Analysis Type:</b> REA			<b>Dilution:</b> 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.108	J	0.0584	MDL	0.403	PQL	mg/Kg	J	Z

<b>Sample ID:</b> SL-033-SA6-SB-2.5-3.5		<b>Collected:</b> 8/11/2011 2:40:00		<b>Analysis Type:</b> RES			<b>Dilution:</b> 2		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0745	U	0.0745	MDL	0.201	PQL	mg/Kg	UJ	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-033-SA6-SB-2.5-3.5      Collected: 8/11/2011 2:40:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0383	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z
VANADIUM	31.0		0.0222	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA6-SB-4.0-5.0      Collected: 8/11/2011 10:09:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.120	J	0.0608	MDL	0.420	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0      Collected: 8/11/2011 10:09:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.129	J	0.0776	MDL	0.210	PQL	mg/Kg	J	Z, Q, FD
CADMIUM	0.0475	J	0.0461	MDL	0.105	PQL	mg/Kg	J	Z, FD
SILVER	0.0466	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z
VANADIUM	36.1		0.0231	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-174-SA6-SB-2.0-3.0      Collected: 8/11/2011 2:46:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.103	J	0.0604	MDL	0.417	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA6-SB-2.0-3.0      Collected: 8/11/2011 2:46:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0849	J	0.0771	MDL	0.208	PQL	mg/Kg	J	Z, Q
SILVER	0.0241	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z
VANADIUM	40.1		0.0229	MDL	0.104	PQL	mg/Kg	J	Q

Sample ID: SL-207-SA5DN-SB-4.0-5.0      Collected: 8/11/2011 10:55:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.145	J	0.0845	MDL	0.228	PQL	mg/Kg	J	Z, Q
SILVER	0.0366	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z
VANADIUM	71.1		0.0251	MDL	0.114	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	<b>Method:</b>	7199	<b>Matrix:</b>	SO
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Sample ID: DUP24-SA6-QC-081111      Collected: 8/11/2011 10:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0      Collected: 8/11/2011 10:09:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.78	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-174-SA6-SB-2.0-3.0      Collected: 8/11/2011 2:46:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

<b>Method Category:</b>	METALS	<b>Method:</b>	7471A	<b>Matrix:</b>	SO
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Sample ID: SL-006-SA5DN-SB-4.0-5.0      Collected: 8/11/2011 8:20:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0090	J	0.0076	MDL	0.108	PQL	mg/Kg	J	Z

<b>Method Category:</b>	SVOA	<b>Method:</b>	1625C	<b>Matrix:</b>	AQ
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Sample ID: EB-SA5DN-SB-081111      Collected: 8/11/2011 12:30:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.88		0.507	MDL	1.01	PQL	ng/L	UJ	B, S

<b>Method Category:</b>	SVOA	<b>Method:</b>	8015M	<b>Matrix:</b>	SO
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Sample ID: SL-207-SA5DN-SB-4.0-5.0      Collected: 8/11/2011 10:55:00      Analysis Type: REA      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.70	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8015M	<b>Matrix:</b> SO

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8082	<b>Matrix:</b> SO

Sample ID: DUP24-SA6-QC-081111      Collected: 8/11/2011 10:15:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.35	U	0.35	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-006-SA5DN-SB-4.0-5.0      Collected: 8/11/2011 8:20:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.57	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5      Collected: 8/11/2011 2:40:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.45	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0      Collected: 8/11/2011 10:09:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.93	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z, FD

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C	<b>Matrix:</b> AQ

Sample ID: EB-SA5DN-SB-081111      Collected: 8/11/2011 12:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	3	U	3	MDL	10	PQL	ug/L	R	L
BENZOIC ACID	6	U	6	MDL	15	PQL	ug/L	UJ	E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C	<b>Matrix:</b> SO

Sample ID: SL-033-SA6-SB-2.5-3.5      Collected: 8/11/2011 2:40:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	17	MDL	350	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0      Collected: 8/11/2011 10:09:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1200	U	1200	MDL	3500	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHTHALATE	63	J	18	MDL	350	PQL	ug/Kg	J	Z
Di-n-octylphthalate	49	J	18	MDL	180	PQL	ug/Kg	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C SIM	<b>Matrix:</b> AQ

Sample ID: EB-SA5DN-SB-081111      Collected: 8/11/2011 12:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
2-METHYLNAPHTHALENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ACENAPHTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ACENAPHTHYLENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(A)ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
BENZO(A)PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(B)FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(G,H,I)PERYLENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BENZO(K)FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
BIS(2-ETHYLHEXYL)PHTHALATE	0.054	U	0.054	MDL	1.1	PQL	ug/L	UJ	E
Butylbenzylphthalate	0.14	J	0.054	MDL	1.1	PQL	ug/L	J	Z, E
CHRYSENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
DIBENZO(A,H)ANTHRACENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
Diethylphthalate	0.13	J	0.054	MDL	1.1	PQL	ug/L	J	Z, E
Dimethylphthalate	0.054	U	0.054	MDL	1.1	PQL	ug/L	UJ	E
Di-n-butylphthalate	0.71	J	0.054	MDL	1.1	PQL	ug/L	J	Z, L, E
FLUORANTHENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
FLUORENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: EB-SA5DN-SB-081111 Collected: 8/11/2011 12:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E
NAPHTHALENE	0.097		0.032	MDL	0.054	PQL	ug/L	J	L, E
N-NITROSODIMETHYLAMINE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	E
PHENANTHRENE	0.032	U	0.032	MDL	0.054	PQL	ug/L	UJ	L, E
PYRENE	0.011	U	0.011	MDL	0.054	PQL	ug/L	UJ	L, E

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

Sample ID: SL-006-SA5DN-SB-9.0-10.0 Collected: 8/11/2011 9:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	8.9	J	6.8	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-033-SA6-SB-2.5-3.5 Collected: 8/11/2011 2:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.87	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
FLUORANTHENE	1.2	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	0.99	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.85	J	0.68	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA6-SB-4.0-5.0 Collected: 8/11/2011 10:09:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1-METHYLNAPHTHALENE	0.70	U	0.70	MDL	1.7	PQL	ug/Kg	UJ	Q

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

Sample ID: EB-SA5DN-SB-081111 Collected: 8/11/2011 12:30:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4-AMINO-2,6-DINITROTOLUENE	0.41	J	0.30	MDL	0.60	PQL	ug/L	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE222

EDD Filename: DE222\_v2

Laboratory: LL

eQAPP Name: CDM\_SSFL\_110509

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DE222

# Method Blank Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1625C  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWE22B281554	8/16/2011 3:54:00 PM	N-NITROSODIMETHYLAMINE	1.64 ng/L	EB-SA5DN-SB-081111

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DN-SB-081111(RES)	N-NITROSODIMETHYLAMINE	3.88 ng/L	3.88U ng/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P23048AB221844	8/19/2011 6:44:00 PM	BORON	0.0025 mg/L	EB-SA5DN-SB-081111

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA5DN-SB-081111(REA2)	BORON	0.0055 mg/L	0.0055U mg/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P22408DB221719	8/17/2011 5:19:00 PM	CALCIUM IRON PHOSPHORUS STRONTIUM TIN	7.06 mg/Kg 3.13 mg/Kg 1.34 mg/Kg 0.0390 mg/Kg 1.93 mg/Kg	DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP24-SA6-QC-081111(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	TIN	3.14 mg/Kg	3.14U mg/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	TIN	3.03 mg/Kg	3.03U mg/Kg
SL-033-SA6-SB-2.5-3.5(RES)	TIN	2.68 mg/Kg	2.68U mg/Kg
SL-155-SA6-SB-4.0-5.0(RES)	TIN	2.78 mg/Kg	2.78U mg/Kg
SL-174-SA6-SB-2.0-3.0(RES)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	TIN	3.07 mg/Kg	3.07U mg/Kg

# Method Blank Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

Method: 8270C SIM

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLE23B260610	8/31/2011 6:10:00 AM	ANTHRACENE FLUORENE	0.65 ug/Kg 0.97 ug/Kg	DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	VANADIUM	136	-	75.00-125.00	-	VANADIUM	J (all detects)
SL-155-SA6-SB-4.0-5.0MS SL-155-SA6-SB-4.0-5.0MSD (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ANTIMONY	28	30	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)  post spike = 76%
SL-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	BARIUM	171	-	75.00-125.00	-	BARIUM	No Qual, >4x

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MS SL-155-SA6-SB-4.0-5.0MSD (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ALUMINUM CALCIUM IRON MAGNESIUM TITANIUM	1728 128 170 - 216	1453 143 873 206 240	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM IRON MAGNESIUM TITANIUM	No Qual, >4x

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MSD (SL-155-SA6-SB-4.0-5.0)	3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE	- -	- -	28.00-109.00 13.00-107.00	33 (30.00) 40 (30.00)	3,3'-DICHLOROBENZIDINE 4-CHLOROANILINE	J(all detects)
SL-155-SA6-SB-4.0-5.0MS SL-155-SA6-SB-4.0-5.0MSD (SL-155-SA6-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MSD (SL-155-SA6-SB-4.0-5.0)	1-METHYLNAPHTHALENE	-	71	72.00-123.00	-	1-METHYLNAPHTHALENE	J(all detects) UJ(all non-detects)

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA6-SB-4.0-5.0MS (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	FLUORIDE	25	-	80.00-120.00	-	FLUORIDE	J(all detects) R(all non-detects)

# Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-155-SA6-SB-4.0-5.0DUP (DUP24 -SA6-QC-081111 SL -006-SA5DN-SB-4.0-5.0 SL -006-SA5DN-SB-9.0-10.0 SL -033-SA6-SB-2.5-3.5 SL -155-SA6-SB-4.0-5.0 SL -174-SA6-SB-2.0-3.0 SL -207-SA5DN-SB-4.0-5.0)	Zirconium	42	20.00	No Qual, OK by Difference

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

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-155-SA6-SB-4.0-5.0DUP (DUP24 -SA6-QC-081111 SL -006-SA5DN-SB-4.0-5.0 SL -006-SA5DN-SB-9.0-10.0 SL -033-SA6-SB-2.5-3.5 SL -155-SA6-SB-4.0-5.0 SL -174-SA6-SB-2.0-3.0 SL -207-SA5DN-SB-4.0-5.0)	ANTIMONY	44	20.00	No Qual, OK by Difference

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method:** 8330A  
**Matrix:** AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12273AQ240057A	2,4,6-TRINITROTOLUENE	110	-	76.00-109.00	-	2,4,6-TRINITROTOLUENE	J (all detects)
P12273AY240139A	3-NITROTOLUENE	110	110	69.00-107.00	-	3-NITROTOLUENE	
(EB-SA5DN -SB-081111)	PETN	138	138	80.00-120.00	-	PETN	

**Method:** 314.0  
**Matrix:** AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
Q11228Y270654A (EB-SA5DN -SB-081111)	PERCHLORATE	-	-	85.00-115.00	20 (15.00)	PERCHLORATE	J(all detects) UJ(all non-detects)

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8WFLCSQ260954 P8WFLCSY261019 (EB-SA5DN -SB-081111)	3,5-Dimethylphenol	1	1	70.00-130.00	-	3,5-Dimethylphenol	J(all detects) R(all non-detects)
P8WFLCSY261019 (EB-SA5DN -SB-081111)	BENZOIC ACID	-	-	10.00-69.00	34 (30.00)	BENZOIC ACID	J(all detects) UJ(all non-detects)

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P9WALCSQ260622 P9WALCSY260654 (EB-SA5DN -SB-081111)	1-METHYLNAPHTHALENE	63	-	71.00-117.00	43 (30.00)	1-METHYLNAPHTHALENE	J(all detects) UJ(all non-detects)
	2-METHYLNAPHTHALENE	63	-	75.00-115.00	43 (30.00)	2-METHYLNAPHTHALENE	
	ACENAPHTHENE	66	-	74.00-109.00	44 (30.00)	ACENAPHTHENE	
	ACENAPHTHYLENE	65	-	70.00-110.00	45 (30.00)	ACENAPHTHYLENE	
	ANTHRACENE	-	-	66.00-111.00	44 (30.00)	ANTHRACENE	
	BENZO(A)ANTHRACENE	68	-	72.00-114.00	43 (30.00)	BENZO(A)ANTHRACENE	
	BENZO(A)PYRENE	-	-	60.00-127.00	43 (30.00)	BENZO(A)PYRENE	
	BENZO(B)FLUORANTHENE	-	-	58.00-151.00	43 (30.00)	BENZO(B)FLUORANTHENE	
	BENZO(G,H,I)PERYLENE	-	-	57.00-131.00	46 (30.00)	BENZO(G,H,I)PERYLENE	
	BENZO(K)FLUORANTHENE	-	-	59.00-130.00	42 (30.00)	BENZO(K)FLUORANTHENE	
	BIS(2-ETHYLHEXYL)PHTHALAT	-	-	57.00-154.00	41 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	
	Butylbenzylphthalate	-	-	40.00-138.00	38 (30.00)	Butylbenzylphthalate	
	CHRYSENE	67	-	76.00-116.00	43 (30.00)	CHRYSENE	
	DIBENZO(A,H)ANTHRACENE	-	-	55.00-134.00	46 (30.00)	DIBENZO(A,H)ANTHRACENE	
	Diethylphthalate	-	-	57.00-134.00	44 (30.00)	Diethylphthalate	
	Dimethylphthalate	-	-	40.00-119.00	43 (30.00)	Dimethylphthalate	
	Di-n-butylphthalate	71	-	74.00-131.00	46 (30.00)	Di-n-butylphthalate	
	FLUORANTHENE	72	-	75.00-116.00	44 (30.00)	FLUORANTHENE	
	FLUORENE	72	-	75.00-114.00	43 (30.00)	FLUORENE	
	INDENO(1,2,3-CD)PYRENE	58	-	69.00-124.00	46 (30.00)	INDENO(1,2,3-CD)PYRENE	
	NAPHTHALENE	65	-	72.00-109.00	42 (30.00)	NAPHTHALENE	
	N-NITROSODIMETHYLAMINE	-	-	36.00-89.00	52 (30.00)	N-NITROSODIMETHYLAMINE	
	PHENANTHRENE	66	-	76.00-111.00	44 (30.00)	PHENANTHRENE	
	PYRENE	67	-	69.00-118.00	44 (30.00)	PYRENE	

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

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# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method: 7470A**  
**Matrix: AQ**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23013CY221556 (EB-SA5DN-SB-081111)	MERCURY	-	89	90.00-115.00	-	MERCURY	No Qual, SRM within QC Limits

**Method: 8015M**  
**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12311AQ321700A (SL-033-SA6-SB-2.5-3.5)	ETHYLENE GLYCOL	123	-	65.00-122.00	-	ETHYLENE GLYCOL	J(all detects)

**Method: 8082**  
**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12341AY241914A (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	Aroclor 5442	-	114	36.00-106.00	-	Aroclor 5432 Aroclor 5442 Aroclor 5460	J(all detects)

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P22408DQ221723 (DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-033-SA6-SB-2.5-3.5 SL-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-207-SA5DN-SB-4.0-5.0)	ALUMINUM IRON TITANIUM	141 136 180	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON TITANIUM	No Qual, SRM within QC Limits

# Surrogate Outlier Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

Method: 1625C

Matrix: AQ

<i>Sample ID</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
EB-SA5DN-SB-081111	N-Nitrosodimethylamine-d6	219	50.00-150.00	All Target Analytes	J (all detects)

# Field Duplicate RPD Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

**Method:** 160.3M

**Matrix:** SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
MOISTURE	5.6	5.0	11		No Qualifiers Applied

**Method:** 300.0

**Matrix:** SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
FLUORIDE	2.3	2.6	12	50.00	No Qualifiers Applied

**Method:** 6010B

**Matrix:** SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
ALUMINUM	20600	20000	3	50.00	No Qualifiers Applied
BORON	4.32	3.96	9	50.00	
CALCIUM	1960	1930	2	50.00	
IRON	20700	20600	0	50.00	
LITHIUM	25.9	25.9	0	50.00	
MAGNESIUM	4630	4470	4	50.00	
MANGANESE	217	188	14	50.00	
PHOSPHORUS	220	208	6	50.00	
POTASSIUM	1590	1510	5	50.00	
SODIUM	86.9	87.4	1	50.00	
STRONTIUM	17.0	16.8	1	50.00	
TIN	2.78	2.81	1	50.00	
TITANIUM	1140	1090	4	50.00	
Zirconium	4.48	2.33	63	50.00	

**Method:** 6020

**Matrix:** SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
ARSENIC	3.50	4.01	14	50.00	No Qualifiers Applied
BARIUM	86.8	89.4	3	50.00	
BERYLLIUM	0.606	0.639	5	50.00	
CHROMIUM	18.5	19.2	4	50.00	
COBALT	4.37	4.79	9	50.00	
COPPER	6.34	6.16	3	50.00	
LEAD	4.67	4.98	6	50.00	
MOLYBDENUM	0.531	0.623	16	50.00	
NICKEL	11.5	11.7	2	50.00	
SELENIUM	0.120	0.103	15	50.00	
SILVER	0.0466	0.0421	10	50.00	
THALLIUM	0.223	0.222	0	50.00	
VANADIUM	36.1	37.2	3	50.00	
ZINC	45.3	44.1	3	50.00	
ANTIMONY	0.129	0.208 U	200	50.00	J(all detects)
CADMIUM	0.0475	0.104 U	200	50.00	UJ(all non-detects)

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

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# Field Duplicate RPD Report

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

Method: 7199  
Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
HEXAVALENT CHROMIUM	0.78	0.49	46	50.00	No Qualifiers Applied

Method: 8082  
Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
AROCLOR 1254	0.93	1.8 U	200	50.00	J(all detects) UJ(all non-detects)

Method: 9045M  
Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
PH	6.09	6.00	1	50.00	No Qualifiers Applied

# Reporting Limit Outliers

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	BORON	J	0.0055	0.0500	PQL	mg/L	J (all detects)

**Method:** 6020  
**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	LEAD	J	0.00011	0.0010	PQL	mg/L	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	Butylbenzylphthalate	J	0.14	1.1	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.13	1.1	PQL	ug/L	
	Di-n-butylphthalate	J	0.71	1.1	PQL	ug/L	

**Method:** 8330A  
**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	4-AMINO-2,6-DINITROTOLUENE	J	0.41	0.60	PQL	ug/L	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	Nitrate-NO3	J	0.88	1.6	PQL	mg/Kg	J (all detects)

**Method:** 6010E  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	BORON	J	3.96	5.26	PQL	mg/Kg	J (all detects)
	SODIUM	J	87.4	105	PQL	mg/Kg	
	TIN	J	2.81	10.5	PQL	mg/Kg	
	Zirconium	J	2.33	5.26	PQL	mg/Kg	
SL-006-SA5DN-SB-4.0-5.0	TIN	J	3.14	11.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.31	5.65	PQL	mg/Kg	
SL-006-SA5DN-SB-9.0-10.0	TIN	J	3.03	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	3.59	5.45	PQL	mg/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	BORON	J	4.23	5.09	PQL	mg/Kg	J (all detects)
	SODIUM	J	68.4	102	PQL	mg/Kg	
	TIN	J	2.68	10.2	PQL	mg/Kg	
	Zirconium	J	1.62	5.09	PQL	mg/Kg	
SL-155-SA6-SB-4.0-5.0	BORON	J	4.32	5.24	PQL	mg/Kg	J (all detects)
	SODIUM	J	86.9	105	PQL	mg/Kg	
	TIN	J	2.78	10.5	PQL	mg/Kg	
	Zirconium	J	4.48	5.24	PQL	mg/Kg	
SL-174-SA6-SB-2.0-3.0	BORON	J	3.30	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.3	PQL	mg/Kg	
	Zirconium	J	1.34	5.16	PQL	mg/Kg	
SL-207-SA5DN-SB-4.0-5.0	TIN	J	3.07	11.0	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.18	5.49	PQL	mg/Kg	

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	SELENIUM	J	0.103	0.417	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0421	0.104	PQL	mg/Kg	
SL-006-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.142	0.226	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.107	0.113	PQL	mg/Kg	
	SILVER	J	0.0487	0.113	PQL	mg/Kg	
SL-006-SA5DN-SB-9.0-10.0	CADMIUM	J	0.0976	0.110	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0241	0.110	PQL	mg/Kg	
SL-033-SA6-SB-2.5-3.5	SELENIUM	J	0.108	0.403	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0383	0.101	PQL	mg/Kg	
SL-155-SA6-SB-4.0-5.0	ANTIMONY	J	0.129	0.210	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0475	0.105	PQL	mg/Kg	
	SELENIUM	J	0.120	0.420	PQL	mg/Kg	
	SILVER	J	0.0466	0.105	PQL	mg/Kg	
SL-174-SA6-SB-2.0-3.0	ANTIMONY	J	0.0849	0.208	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.103	0.417	PQL	mg/Kg	
	SILVER	J	0.0241	0.104	PQL	mg/Kg	
SL-207-SA5DN-SB-4.0-5.0	ANTIMONY	J	0.145	0.228	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0366	0.114	PQL	mg/Kg	

**Method:** 7199  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.78	1.1	PQL	mg/Kg	J (all detects)
SL-174-SA6-SB-2.0-3.0	HEXAVALENT CHROMIUM	J	0.51	1.0	PQL	mg/Kg	J (all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE222

Laboratory: LL

EDD Filename: DE222\_v2

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-4.0-5.0	MERCURY	J	0.0090	0.108	PQL	mg/Kg	J (all detects)

**Method:** 8015M  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-207-SA5DN-SB-4.0-5.0	EFH (C30-C40)	J	0.70	1.4	PQL	mg/Kg	J (all detects)

**Method:** 8082  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-4.0-5.0	AROCLOR 1254	J	0.57	1.9	PQL	ug/Kg	J (all detects)
SL-033-SA6-SB-2.5-3.5	AROCLOR 1260	J	0.45	1.8	PQL	ug/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.93	1.8	PQL	ug/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA6-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	350	PQL	ug/Kg	J (all detects)
SL-155-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	63	350	PQL	ug/Kg	J (all detects)
	Di-n-octylphthalate	J	49	180	PQL	ug/Kg	

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.9	20	PQL	ug/Kg	J (all detects)
SL-033-SA6-SB-2.5-3.5	CHRYSENE	J	0.87	1.7	PQL	ug/Kg	J (all detects)
	FLUORANTHENE	J	1.2	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	0.99	1.7	PQL	ug/Kg	
	PYRENE	J	0.85	1.7	PQL	ug/Kg	

LDC #: 26533K4

## VALIDATION COMPLETENESS WORKSHEET

SDG #: DE222

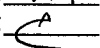
ADR

Laboratory: Lancaster Laboratories

Date: 1/7/11

Page: 1 of 1

Reviewer: MN

2nd Reviewer: 

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Ti > 4X
VII.	Duplicate Sample Analysis	NA	Sb, Zn < 1X
VIII.	Laboratory Control Samples (LCS)	NA	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB = B

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

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

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

1	SL-006-SA5DN-SB-4.0-5.0	11	SL-155-SA6-SB-4.0-5.0DUP	21		31	
2	SL-006-SA5DN-SB-9.0-10.0	12		22		32	
3	SL-207-SA5DN-SB-4.0-5.0	13		23		33	
4	SL-155-SA6-SB-4.0-5.0	14		24		34	
5	SL-174-SA6-SB-2.0-3.0	15		25		35	
6	SL-033-SA6-SB-2.5-3.5	16		26		36	
7	DUP24-SA6-QC-081111	17		27		37	
8	EB-SA5DN-SB-081111	18		28		38	
9	SL-155-SA6-SB-4.0-5.0MS	19		29		39	
10	SL-155-SA6-SB-4.0-5.0MSD	20		30		40	

Notes: \_\_\_\_\_

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METHOD: Trace metals (EPA SW 864 Method 6010B/6020/7000)  
 Sample Concentration units, unless otherwise noted: mg/Kg

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Limit	1	5	6	7					
Zr			6.7	3.35	3.3	1.3	1.6	2.3					

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

**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

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

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

**Blank units:** ug/L. **Associated sample units:** mg/Kg

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

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

**Associated Samples:** All Soil (>5X)

Analyte		Blank ID	Sample Identification																	
		4																		
B		5.5																		
Pb		0.11																		

**CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:**  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".



QUALITY ASSURANCE SUMMARY  
 FORM 5A (MS/MSD)  
 MATRIX SPIKE/MATRIX SPIKE DUPLICATE  
 SDG No.: DE222  
 Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6374010BKG Matrix Spike Lab Sample ID: 6374011MS Matrix Spike Duplicate Lab Sample ID: 6374012MSD  
 Solids for Sample: 94.4  
 Batch Id(s): P22408D, P22426B, P22411B

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C				%R	Q	%R	Q	%R	Q
Aluminum	121	20606.3780		24194.7667		23624.6261		207.7102	207.7102	MG/KG	1728	1453	2			20P
Antimony	75	0.1290	B	0.4765		0.5123		1.2463	1.2586	MG/KG	28 N	30 N	7			75 - 125
Arsenic	137	3.5031		5.5438		5.5588		2.0771	2.0977	MG/KG	98	98	0			75 - 125
Barium	9	86.8015		104.5198		99.1358		10.3855	10.4883	MG/KG	171	118	5			20MS
Beryllium	111	0.6056		1.4689		1.4552		0.8308	0.8391	MG/KG	104	101	1			20MS
Boron	4.3180	B		218.0199		217.6647		207.7102	207.7102	MG/KG	103	103	0			20P
Cadmium	111	0.0475	B	1.0815		1.1571		1.0386	1.0488	MG/KG	100	106	7			20MS
Calcium	52	1960.7327		2492.0239		2556.6073		415.4204	415.4204	MG/KG	128	143	3			20P
Chromium	59	18.5203		30.0349		29.5142		10.3855	10.4883	MG/KG	111	105	2			20MS
Cobalt	63	4.3673		59.1766		58.4200		51.9276	52.4417	MG/KG	106	103	1			20MS
Copper	208	6.3392		16.9699		16.5925		10.3855	10.4883	MG/KG	102	98	2			20MS
Iron	208	20694.8481		20871.8781		21601.6721		103.8551	103.8551	MG/KG	170	873	3			20P
Lead	208	4.6736		8.3915		8.1578		3.1157	3.1465	MG/KG	119	111	3			20MS
Lithium	7	25.8705		131.0641		130.4140		103.8551	103.8551	MG/KG	101	101	0			20P
Magnesium	208	4628.0385		4861.1893		5056.3881		207.7102	207.7102	MG/KG	112	206	4			20P
Manganese	52	216.5852		256.3424		259.6980		51.9276	51.9276	MG/KG	77	83	1			20P
Mercury	203	0.0074	U	0.1681		0.1684		0.1681	0.1700	MG/KG	100	99	0			20CV
Molybdenum	98	0.5313		11.0917		10.9519		10.3855	10.4883	MG/KG	102	99	1			20MS
Nickel	60	11.5309		22.7858		22.9904		10.3855	10.4883	MG/KG	108	109	1			20MS
Phosphorus	31	220.0034		316.4029		322.9790		103.8551	103.8551	MG/KG	93	99	2			20P
Potassium	39	1591.9628		2742.4799		2831.6955		1038.5510	1038.5510	MG/KG	111	119	3			20P
Selenium	78	0.1199	B	2.4136		2.3032		2.0771	2.0977	MG/KG	110	104	5			20MS
Silver	107	0.0466	B	11.1104		11.0023		10.3855	10.4883	MG/KG	107	104	1			20MS
Sodium	23	86.8550	B	1111.8769		1097.7225		1038.5510	1038.5510	MG/KG	99	97	1			20P
Strontium	88	16.9754		126.3418		125.0114		103.8551	103.8551	MG/KG	105	104	1			20P
Thallium	203	0.2226		0.6487		0.6926		0.4154	0.4195	MG/KG	103	112	7			20MS
Tin	50	2.7847	B	386.9537		381.8306		415.4204	415.4204	MG/KG	92	91	1			20P
Titanium	48	1135.4411		1360.1882		1385.0906		103.8551	103.8551	MG/KG	216	240	2			20P
Vanadium	51	36.1428		50.2866		49.1274		10.3855	10.4883	MG/KG	136 N	124	2			20MS
Zinc	66	45.3096		56.2272		55.8399		10.3855	10.4883	MG/KG	105	100	1			20MS
Zirconium	40	4.4796	B	106.4920		102.1342		103.8551	103.8551	MG/KG	98	94	4			20P

of Sb post spike: 967 J/WJ

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

# **SAMPLE DELIVERY GROUP**

**DE229**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3050B	6010B	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3050B	6020	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3060A	7199	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3550B	8082	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3550B	8270C	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	3550B	8270C SIM	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	METHOD	300.0	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	METHOD	314.0	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384474	N	METHOD	7471A	III
22-Aug-2011	TB-082211	6384475	TB	5030B	8015M	III
22-Aug-2011	TB-082211	6384475	TB	5030B	8260B	III
22-Aug-2011	TB-082211	6384475	TB	5030B	8260B SIM	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3050B	6010B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3050B	6020	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3060A	7199	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3546	1625C	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8015B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8015M	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8082	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8270C	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	3550B	8270C SIM	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	5035	8015M	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	8330	8330A	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	300.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	314.0	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384465	N	METHOD	7471A	III

## Sample Cross Reference

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

## Sample Cross Reference

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

## Sample Cross Reference

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

## Sample Cross Reference

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

## Sample Cross Reference

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

## Sample Cross Reference

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

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	GENCHEM	
<b>Method:</b>	300.0	<b>Matrix:</b> SO

<b>Sample ID:</b> SL-007-SA5DN-SS-0.0-0.5			<b>Collected:</b> 8/22/2011 8:00:00			<b>Analysis Type:</b> RES			<b>Dilution:</b> 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	3.2		0.91	MDL	1.1	PQL	mg/Kg	J	Q	

<b>Sample ID:</b> SL-215-SA6-SB-4.0-5.0			<b>Collected:</b> 8/22/2011 8:10:00			<b>Analysis Type:</b> RES			<b>Dilution:</b> 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	1.4		0.90	MDL	1.1	PQL	mg/Kg	J	Q	

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

<b>Sample ID:</b> SL-241-SA6-SB-9.0-10.0			<b>Collected:</b> 8/22/2011 12:13:00			<b>Analysis Type:</b> RES			<b>Dilution:</b> 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.89	U	0.89	MDL	1.1	PQL	mg/Kg	UJ	Q	

<b>Sample ID:</b> SL-242-SA6-SB-4.0-5.0			<b>Collected:</b> 8/22/2011 11:05:00			<b>Analysis Type:</b> RES			<b>Dilution:</b> 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.87	J	0.85	MDL	1.1	PQL	mg/Kg	J	Z, Q	

<b>Sample ID:</b> SL-242-SA6-SB-9.0-10.0			<b>Collected:</b> 8/22/2011 11:04:00			<b>Analysis Type:</b> RES			<b>Dilution:</b> 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
FLUORIDE	0.85	U	0.85	MDL	1.1	PQL	mg/Kg	UJ	Q	

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	GENCHEM	
<b>Method:</b>	300.0	<b>Matrix:</b> SO

Sample ID: SL-279-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q
Nitrate-NO3	0.93	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0      Collected: 8/22/2011 11:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.8		0.87	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	0.95	J	0.87	MDL	1.6	PQL	mg/Kg	J	Z

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

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

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5      Collected: 8/22/2011 8:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	2.80	J	0.366	MDL	11.4	PQL	mg/Kg	U	B
Zirconium	4.20	J	0.526	MDL	5.71	PQL	mg/Kg	J	Z

Sample ID: SL-215-SA6-SB-4.0-5.0      Collected: 8/22/2011 8:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.41	J	0.394	MDL	5.47	PQL	mg/Kg	J	Z
TIN	2.70	J	0.350	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.33	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

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

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

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

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

Sample ID: SL-241-SA6-SB-9.0-10.0      Collected: 8/22/2011 12:13:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.07	J	0.381	MDL	5.30	PQL	mg/Kg	J	Z
TIN	3.14	J	0.339	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	1.36	J	0.487	MDL	5.30	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:05:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.71	J	0.379	MDL	5.26	PQL	mg/Kg	J	Z
SODIUM	91.7	J	6.26	MDL	105	PQL	mg/Kg	J	Z
TIN	2.42	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.85	J	0.484	MDL	5.26	PQL	mg/Kg	J	Z

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.04	J	0.359	MDL	4.98	PQL	mg/Kg	J	Z
SODIUM	80.3	J	5.93	MDL	99.6	PQL	mg/Kg	J	Z
TIN	2.55	J	0.319	MDL	9.96	PQL	mg/Kg	U	B
Zirconium	1.90	J	0.458	MDL	4.98	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6010B	<b>Matrix:</b> SO

Sample ID: SL-279-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.05	J	0.378	MDL	5.25	PQL	mg/Kg	J	Z
TIN	2.73	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	1.51	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0      Collected: 8/22/2011 11:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	0.711	J	0.375	MDL	5.21	PQL	mg/Kg	J	Z
TIN	2.69	J	0.334	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.50	J	0.480	MDL	5.21	PQL	mg/Kg	J	Z

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

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

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0846	U	0.0846	MDL	0.229	PQL	mg/Kg	R	Q
ARSENIC	7.48		0.0914	MDL	0.457	PQL	mg/Kg	J	Q, E, E
COBALT	14.0		0.0229	MDL	0.114	PQL	mg/Kg	J	E
COPPER	21.6		0.0914	MDL	0.457	PQL	mg/Kg	J	Q
LEAD	16.2		0.0117	MDL	0.229	PQL	mg/Kg	J	Q, Q, E
NICKEL	26.7		0.114	MDL	0.457	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0721	J	0.0162	MDL	0.114	PQL	mg/Kg	J	Z

Sample ID: SL-215-SA6-SB-4.0-5.0      Collected: 8/22/2011 8:10:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.106	J	0.0635	MDL	0.438	PQL	mg/Kg	J	Z, E

Sample ID: SL-215-SA6-SB-4.0-5.0      Collected: 8/22/2011 8:10:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0810	U	0.0810	MDL	0.219	PQL	mg/Kg	R	Q
ARSENIC	7.22		0.0876	MDL	0.438	PQL	mg/Kg	J	Q, E, E
CADMIUM	0.105	J	0.0482	MDL	0.109	PQL	mg/Kg	J	Z
COBALT	7.10		0.0219	MDL	0.109	PQL	mg/Kg	J	E
COPPER	12.7		0.0876	MDL	0.438	PQL	mg/Kg	J	Q
LEAD	8.77		0.0112	MDL	0.219	PQL	mg/Kg	J	Q, Q, E
NICKEL	16.8		0.109	MDL	0.438	PQL	mg/Kg	J	Q
SILVER	0.0722	J	0.0155	MDL	0.109	PQL	mg/Kg	J	Z

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

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

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

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-241-SA6-SB-9.0-10.0      Collected: 8/22/2011 12:13:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0790	J	0.0614	MDL	0.424	PQL	mg/Kg	J	Z, E

Sample ID: SL-241-SA6-SB-9.0-10.0      Collected: 8/22/2011 12:13:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0784	U	0.0784	MDL	0.212	PQL	mg/Kg	R	Q
ARSENIC	9.55		0.0848	MDL	0.424	PQL	mg/Kg	J	Q, E, E
COBALT	7.67		0.0212	MDL	0.106	PQL	mg/Kg	J	E
COPPER	12.9		0.0848	MDL	0.424	PQL	mg/Kg	J	Q
LEAD	9.52		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, Q, E
NICKEL	16.6		0.106	MDL	0.424	PQL	mg/Kg	J	Q
SILVER	0.0751	J	0.0150	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:05:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.145	J	0.0610	MDL	0.421	PQL	mg/Kg	J	Z, E

Sample ID: SL-242-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:05:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0779	U	0.0779	MDL	0.210	PQL	mg/Kg	R	Q
ARSENIC	5.34		0.0842	MDL	0.421	PQL	mg/Kg	J	Q, E, E
COBALT	8.80		0.0210	MDL	0.105	PQL	mg/Kg	J	E
COPPER	15.8		0.0842	MDL	0.421	PQL	mg/Kg	J	Q
LEAD	6.95		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, Q, E
NICKEL	22.3		0.105	MDL	0.421	PQL	mg/Kg	J	Q
SILVER	0.0564	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z

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

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS		
<b>Method:</b>	6020	<b>Matrix:</b>	SO

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

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

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

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

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

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

Sample ID: SL-279-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:00:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0887	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z, E

Sample ID: SL-279-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:00:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0777	U	0.0777	MDL	0.210	PQL	mg/Kg	R	Q
ARSENIC	9.27		0.0840	MDL	0.420	PQL	mg/Kg	J	Q, E, E
CADMIUM	0.0918	J	0.0462	MDL	0.105	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-279-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:00:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.08		0.0210	MDL	0.105	PQL	mg/Kg	J	E
COPPER	11.1		0.0840	MDL	0.420	PQL	mg/Kg	J	Q
LEAD	7.29		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, Q, E
NICKEL	18.0		0.105	MDL	0.420	PQL	mg/Kg	J	Q
SILVER	0.0882	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z

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

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0772	U	0.0772	MDL	0.209	PQL	mg/Kg	R	Q
ARSENIC	6.47		0.0834	MDL	0.417	PQL	mg/Kg	J	Q, E, E
COBALT	7.30		0.0209	MDL	0.104	PQL	mg/Kg	J	E
COPPER	9.78		0.0834	MDL	0.417	PQL	mg/Kg	J	Q
LEAD	6.26		0.0106	MDL	0.209	PQL	mg/Kg	J	Q, Q, E
NICKEL	15.9		0.104	MDL	0.417	PQL	mg/Kg	J	Q
SILVER	0.0422	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z

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

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

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

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

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

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

<b>Method Category:</b>	METALS	
<b>Method:</b>	7199	<b>Matrix:</b> SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5      Collected: 8/22/2011 8:00:00      Analysis Type: RES      Dilution: 1

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-241-SA6-SB-9.0-10.0      Collected: 8/22/2011 12:13:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.51	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-242-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:05:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	METALS	
<b>Method:</b>	7199	<b>Matrix:</b> SO

Sample ID: SL-279-SA6-SB-9.0-10.0      Collected: 8/22/2011 11:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

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

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

<b>Method Category:</b>	METALS	
<b>Method:</b>	7471A	<b>Matrix:</b> SO

Sample ID: SL-007-SA5DN-SS-0.0-0.5      Collected: 8/22/2011 8:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0139	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

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

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

Sample ID: SL-279-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0106	J	0.0075	MDL	0.106	PQL	mg/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0      Collected: 8/22/2011 11:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0106	J	0.0076	MDL	0.107	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	8015M	<b>Matrix:</b>	SO
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Sample ID: SL-215-SA6-SB-4.0-5.0	Collected: 8/22/2011 8:10:00	Analysis Type: DL2	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.1	J	0.45	MDL	1.4	PQL	mg/Kg	J	Z

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

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

<b>Method Category:</b>	SVOA	<b>Method:</b>	8082	<b>Matrix:</b>	SO
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Sample ID: SL-215-SA6-SB-4.0-5.0	Collected: 8/22/2011 8:10:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.85	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA6-SB-4.0-5.0	Collected: 8/22/2011 11:00:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	1.5	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	1.1	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	3.2	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

Sample ID: SL-279-SA6-SB-9.0-10.0	Collected: 8/22/2011 11:50:00	Analysis Type: RES-BASE/NEUTRAL	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.82	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.90	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.8	J	1.1	MDL	3.6	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	8082		

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.73	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	8270C		

Sample ID: SL-007-SA5DN-SS-0.0-0.5      Collected: 8/22/2011 8:00:00      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	570	PQL	ug/Kg	UJ	L
BENZO(G,H,I)PERYLENE	41	J	19	MDL	190	PQL	ug/Kg	J	Z

Sample ID: SL-215-SA6-SB-4.0-5.0      Collected: 8/22/2011 8:10:00      Analysis Type: RES-ACID      Dilution: 1

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

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

Sample ID: SL-241-SA6-SB-9.0-10.0      Collected: 8/22/2011 12:13:00      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	550	PQL	ug/Kg	UJ	L

Sample ID: SL-242-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:05:00      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

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

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C	<b>Matrix:</b> SO

<b>Sample ID:</b> SL-279-SA6-SB-1.0-2.0	<b>Collected:</b> 8/22/2011 10:25:00	<b>Analysis Type:</b> RES-ACID	<b>Dilution:</b> 1						
<b>Analyte</b>	<b>Lab Result</b>	<b>Lab Qual</b>	<b>DL</b>	<b>DL Type</b>	<b>RL</b>	<b>RL Type</b>	<b>Units</b>	<b>Data Review Qual</b>	<b>Reason Code</b>
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L

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

<b>Sample ID:</b> SL-279-SA6-SB-9.0-10.0	<b>Collected:</b> 8/22/2011 11:50:00	<b>Analysis Type:</b> RES-ACID	<b>Dilution:</b> 1						
<b>Analyte</b>	<b>Lab Result</b>	<b>Lab Qual</b>	<b>DL</b>	<b>DL Type</b>	<b>RL</b>	<b>RL Type</b>	<b>Units</b>	<b>Data Review Qual</b>	<b>Reason Code</b>
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

<b>Sample ID:</b> SL-310-SA6-SB-4.0-5.0	<b>Collected:</b> 8/22/2011 9:15:00	<b>Analysis Type:</b> RES-ACID	<b>Dilution:</b> 1						
<b>Analyte</b>	<b>Lab Result</b>	<b>Lab Qual</b>	<b>DL</b>	<b>DL Type</b>	<b>RL</b>	<b>RL Type</b>	<b>Units</b>	<b>Data Review Qual</b>	<b>Reason Code</b>
4,6-DINITRO-2-METHYLPHENOL	190	U	190	MDL	560	PQL	ug/Kg	UJ	L

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C SIM	<b>Matrix:</b> SO

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

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

<b>Sample ID:</b> SL-279-SA6-SB-9.0-10.0	<b>Collected:</b> 8/22/2011 11:50:00	<b>Analysis Type:</b> RES-BASE/NEUTRAL	<b>Dilution:</b> 1						
<b>Analyte</b>	<b>Lab Result</b>	<b>Lab Qual</b>	<b>DL</b>	<b>DL Type</b>	<b>RL</b>	<b>RL Type</b>	<b>Units</b>	<b>Data Review Qual</b>	<b>Reason Code</b>
CHRYSENE	0.49	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	VOA	
<b>Method:</b>	8260B	<b>Matrix:</b> SO

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

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

Sample ID: SL-279-SA6-SB-4.0-5.0      Collected: 8/22/2011 11:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	0.82	J	0.25	MDL	4.2	PQL	ug/Kg	U	B
TOLUENE	0.27	J	0.08	MDL	4.2	PQL	ug/Kg	J	Z

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

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DE229

# Method Blank Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

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

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

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

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

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

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

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

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-279-SA6-SB-1.0-2.0(RES)	METHYLENE CHLORIDE	1.2 ug/Kg	4.5U ug/Kg
SL-279-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	0.82 ug/Kg	4.2U ug/Kg
SL-279-SA6-SB-9.0-10.0(RES)	METHYLENE CHLORIDE	1.0 ug/Kg	4.1U ug/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA6-SB-4.0-5.0MS SL-215-SA6-SB-4.0-5.0MSD (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE TITANIUM	2403 227 2058 370 203 261	4510 379 3214 718 - 264	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - -	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE TITANIUM	No Qual, >4x

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

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

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA6-SB-4.0-5.0MSD (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	SELENIUM	-	-	75.00-125.00	21 (20.00)	SELENIUM	J(all detects) UJ(all non-detects)
SL-215-SA6-SB-4.0-5.0MS SL-215-SA6-SB-4.0-5.0MSD (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	BARIUM	278	45	75.00-125.00	-	BARIUM	No Qual, >4x

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-215-SA6-SB-4.0-5.0MS (SL-007-SA5DN-SS-0.0-0.5 SL-215-SA6-SB-4.0-5.0 SL-241-SA6-SB-4.0-5.0 SL-241-SA6-SB-9.0-10.0 SL-242-SA6-SB-4.0-5.0 SL-242-SA6-SB-9.0-10.0 SL-279-SA6-SB-1.0-2.0 SL-279-SA6-SB-4.0-5.0 SL-279-SA6-SB-9.0-10.0 SL-310-SA6-SB-4.0-5.0)	FLUORIDE	34	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

# Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

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

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

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

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

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

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

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 8260B**  
**Matrix: AQ**

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

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

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

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P23608EQ220959A (SL-007-SA5DN-SS-0.0-0.5 SL -215-SA6-SB-4.0-5.0 SL -241-SA6-SB-4.0-5.0 SL -241-SA6-SB-9.0-10.0 SL -242-SA6-SB-4.0-5.0 SL -242-SA6-SB-9.0-10.0 SL -279-SA6-SB-1.0-2.0 SL -279-SA6-SB-4.0-5.0 SL -279-SA6-SB-9.0-10.0 SL -310-SA6-SB-4.0-5.0)	ANTIMONY	56	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

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

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

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

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# Reporting Limit Outliers

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

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

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

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

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

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

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

# Reporting Limit Outliers

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

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

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

**Method: 7199**  
**Matrix: SO**

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

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

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

# Reporting Limit Outliers

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 8015M

**Matrix:** SO

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

**Method:** 8082

**Matrix:** SO

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

**Method:** 8260B

**Matrix:** SO

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

**Method:** 8270C

**Matrix:** SO

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

**Method:** 8270C SIM

**Matrix:** SO

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

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

# Reporting Limit Outliers

Lab Reporting Batch ID: DE229

Laboratory: LL

EDD Filename: DE229\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 8270C SIM

Matrix: SO

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

**VALIDATION COMPLETENESS WORKSHEET**

Date: 4/7/11

SDG #: DE229

ADR

Page: 1 of 1

Laboratory: Lancaster Laboratories

Reviewer: [Signature]

2nd Reviewer: [Signature]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	P	
III.	Calibration	N	
IV.	Blanks	SW	No find by 20B/20C
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn > 4x
VII.	Duplicate Sample Analysis	SW	Cd, Se, Zr < 5x, RL
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

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

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

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples:

1	SL-215-SA6-SB-4.0-5.0	11	# 1 mg	21		31	
2	SL-241-SA6-SB-4.0-5.0	12	↓ 1 mg	22		32	
3	SL-241-SA6-SB-9.0-10.0	13	↓ 2 mg	23		33	
4	SL-242-SA6-SB-4.0-5.0	14		24		34	
5	SL-242-SA6-SB-9.0-10.0	15		25		35	
6	SL-279-SA6-SB-1.0-2.0	16		26		36	
7	SL-279-SA6-SB-4.0-5.0	17		27		37	
8	SL-279-SA6-SB-9.0-10.0	18		28		38	
9	SL-310-SA6-SB-4.0-5.0	19		29		39	
10	SL-007-SA5DN-SS-0.0-0.5	20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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

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

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

METHODS: CP

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

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

\* Post spike Sb=61  
 As=66



QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE229

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6384465BKG

Duplicate Lab Sample ID: 6384465DUP

% Solids for Duplicate: 88.7

% Solids for Sample: 88.7

Batch ID(s): P23608E, P23611A

Concentration Units: MG/KG

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

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

DE229 3535

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

**DX081**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-May-2011	SL-096-SA8N-SB-4.0-5.0	6287611	N	METHOD	1613B	III
13-May-2011	SL-096-SA8N-SB-9.0-10.0	6287612	N	METHOD	1613B	III
13-May-2011	SL-094-SA8N-SB-4.0-5.0	6287608	N	METHOD	1613B	III
13-May-2011	SL-094-SA8N-SB-7.5-8.5	6287609	N	METHOD	1613B	III
13-May-2011	SL-095-SA8N-SB-4.0-5.0	6287610	N	METHOD	1613B	III
13-May-2011	SL-104-SA8N-SB-4.0-5.0	6287613	N	METHOD	1613B	III
13-May-2011	SL-104-SA8N-SB-9.0-10.0	6287614	N	METHOD	1613B	III
16-May-2011	SL-003-SA5DN-SB-0.5-1.5	6288962	N	METHOD	1613B	III
16-May-2011	SL-003-SA5DN-SB-8.0-9.0	6288963	N	METHOD	1613B	III
16-May-2011	SL-042-SA5A-SB-3.5-4.5	6288954	N	METHOD	1613B	III
16-May-2011	SL-042-SA5A-SB-3.5-4.5MS	6288955	MS	METHOD	1613B	III
16-May-2011	SL-042-SA5A-SB-3.5-4.5MSD	6288956	MSD	METHOD	1613B	III
16-May-2011	DUP-17-SA5A-QC-051611	6288957	FD	METHOD	1613B	III
16-May-2011	SL-004-SA5DN-SB-3.5-4.5	6288964	N	METHOD	1613B	III
16-May-2011	SL-004-SA5DN-SB-9.0-10.0	6288965	N	METHOD	1613B	III
16-May-2011	EB15-SA5A-SB-051611	6288959	EB	METHOD	1613B	III
16-May-2011	SL-002-SA5DN-SB-4.0-5.0	6288960	N	METHOD	1613B	III
16-May-2011	SL-002-SA5DN-SB-9.0-10.0	6288961	N	METHOD	1613B	III
16-May-2011	SL-167-SA5A-SB-1.0-2.0	6288958	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	AQ
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Sample ID: EB15-SA5A-SB-051611      Collected: 5/16/2011 2:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.17	J	0.640	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.21	J	0.288	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	1.01	J	0.346	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.449	J	0.367	MDL	10.7	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.477	J	0.239	MDL	10.7	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.644	JQ	0.393	MDL	10.7	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.609	J	0.231	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.749	J	0.372	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.577	JQ	0.246	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.430	JQ	0.311	MDL	10.7	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.168	J	0.164	MDL	10.7	PQL	pg/L	J	Z
2,3,4,6,7,8-HXCDF	0.879	JQ	0.218	MDL	10.7	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.720	J	0.142	MDL	10.7	PQL	pg/L	U	B
2,3,7,8-TCDD	0.482	JQ	0.279	MDL	2.14	PQL	pg/L	U	B
OCDD	5.95	JQ	0.500	MDL	21.4	PQL	pg/L	U	B
OCDF	0.932	JQ	0.586	MDL	21.4	PQL	pg/L	U	B

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: DUP-17-SA5A-QC-051611      Collected: 5/16/2011 11:37:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	24.2	B	0.0586	MDL	5.54	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	4.92	JB	0.0194	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	1.11	JB	0.0365	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.421	JB	0.0468	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.543	JB	0.0400	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	1.42	JB	0.0493	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.512	JB	0.0330	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDD	0.701	JB	0.0487	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.403	JB	0.0395	MDL	5.54	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.307	JBQ	0.0377	MDL	5.54	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.253	JB	0.0200	MDL	5.54	PQL	ng/Kg	UJ	B, FD

\* denotes a non-reportable result

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

8/17/2011 7:30:16 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: DUP-17-SA5A-QC-051611      Collected: 5/16/2011 11:37:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.773	JB	0.0325	MDL	5.54	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.343	JBQ	0.0202	MDL	5.54	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.114	JB	0.0232	MDL	1.11	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.102	J	0.0383	MDL	1.11	PQL	ng/Kg	J	Z, FD
OCDF	10.9	JB	0.0356	MDL	11.1	PQL	ng/Kg	J	Z, FD

Sample ID: SL-002-SA5DN-SB-4.0-5.0      Collected: 5/16/2011 3:48:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.341	JB	0.0414	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.134	JBQ	0.0117	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0634	JBQ	0.0247	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0352	JB	0.0231	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.133	JB	0.0278	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0415	JBQ	0.0189	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.244	JBQ	0.0281	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.343	JB	0.0266	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0810	JBQ	0.0340	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0609	JBQ	0.0176	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0924	JBQ	0.0196	MDL	5.66	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0564	JBQ	0.0180	MDL	5.66	PQL	ng/Kg	U	B
OCDD	1.53	JB	0.0346	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.315	JBQ	0.0682	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-002-SA5DN-SB-9.0-10.0      Collected: 5/16/2011 3:52:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.280	JB	0.0269	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.111	JBQ	0.00826	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0403	JBQ	0.0158	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0526	JB	0.0143	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0314	JB	0.0181	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0350	JBQ	0.0115	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0544	JB	0.0181	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0501	JBQ	0.0154	MDL	5.55	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-002-SA5DN-SB-9.0-10.0      Collected: 5/16/2011 3:52:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0262	JBQ	0.0206	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0124	JBQ	0.0118	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0501	JBQ	0.0122	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0636	JBQ	0.0119	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0203	J	0.0192	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.77	JBQ	0.0231	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.263	JBQ	0.0352	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-003-SA5DN-SB-0.5-1.5      Collected: 5/16/2011 10:43:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.11	JB	0.0365	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.291	JB	0.0120	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.126	JB	0.0235	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0898	JB	0.0277	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.179	JBQ	0.0255	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.615	JB	0.0286	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.144	JB	0.0210	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.988	JB	0.0282	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.09	JB	0.0288	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.226	JBQ	0.0297	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.367	JB	0.0185	MDL	5.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.136	JB	0.0238	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.241	JBQ	0.0199	MDL	5.95	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.143	J	0.0409	MDL	1.19	PQL	ng/Kg	J	Z
OCDF	0.704	JBQ	0.0421	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-003-SA5DN-SB-8.0-9.0      Collected: 5/16/2011 10:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.377	JB	0.0275	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.194	JB	0.0102	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.110	JBQ	0.0159	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0831	JB	0.0229	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.133	JBQ	0.0187	MDL	5.55	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA		
<b>Method:</b>	1613B	<b>Matrix:</b>	SO

Sample ID: SL-003-SA5DN-SB-8.0-9.0

Collected: 5/16/2011 10:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.108	JBQ	0.0228	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.110	JB	0.0166	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.101	JBQ	0.0227	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.194	JBQ	0.0179	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.163	JBQ	0.0236	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.203	JBQ	0.0124	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.131	JBQ	0.0162	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.184	JB	0.0130	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0860	JB	0.0179	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0652	JQ	0.0177	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.11	JBQ	0.0255	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.369	JB	0.0409	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-004-SA5DN-SB-3.5-4.5

Collected: 5/16/2011 12:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.658	JB	0.0316	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.205	JB	0.0109	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.105	JB	0.0255	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0813	JB	0.0219	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.135	JBQ	0.0237	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.563	JB	0.0226	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JB	0.0186	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.939	JB	0.0224	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.54	JB	0.0284	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.218	JBQ	0.0400	MDL	5.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.437	JBQ	0.0156	MDL	5.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.124	JB	0.0207	MDL	5.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.166	JBQ	0.0174	MDL	5.98	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0555	JBQ	0.0260	MDL	1.20	PQL	ng/Kg	U	B
OCDD	6.06	JB	0.0291	MDL	12.0	PQL	ng/Kg	J	Z
OCDF	0.373	JBQ	0.0501	MDL	12.0	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category:	SVOA		
Method:	1613B	Matrix:	SO

Sample ID: SL-004-SA5DN-SB-9.0-10.0

Collected: 5/16/2011 12:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.211	JB	0.0222	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.115	JBQ	0.00816	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0549	JBQ	0.0141	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0311	JBQ	0.0164	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0860	JBQ	0.0115	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0625	JBQ	0.0171	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0673	JB	0.0101	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0650	JBQ	0.0170	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0638	JBQ	0.0138	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.110	JB	0.0230	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0833	JBQ	0.0116	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0696	JB	0.0115	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0952	JB	0.0119	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0274	JBQ	0.0172	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0461	JQ	0.0181	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	0.602	JB	0.0218	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.212	JB	0.0321	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-042-SA5A-SB-3.5-4.5

Collected: 5/16/2011 11:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	12.6	B	0.0543	MDL	5.45	PQL	ng/Kg	J	Q, Q, FD
1,2,3,4,6,7,8-HPCDF	2.06	JB	0.0221	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.371	JB	0.0364	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.178	JB	0.0546	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.215	JB	0.0417	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDD	0.579	JB	0.0550	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.196	JB	0.0356	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.260	JB	0.0469	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.157	JB	0.0388	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.101	JBQ	0.0352	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0835	JBQ	0.0171	MDL	5.45	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.292	JB	0.0313	MDL	5.45	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.111	JB	0.0189	MDL	5.45	PQL	ng/Kg	UJ	B, FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-042-SA5A-SB-3.5-4.5      Collected: 5/16/2011 11:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0210	U	0.0210	MDL	1.09	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0432	J	0.0260	MDL	1.09	PQL	ng/Kg	J	Z, FD
OCDD	150	B	0.0451	MDL	10.9	PQL	ng/Kg	J	Q, Q
OCDF	4.68	JB	0.0519	MDL	10.9	PQL	ng/Kg	J	Z, FD

Sample ID: SL-094-SA8N-SB-4.0-5.0      Collected: 5/13/2011 10:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.590	JBQ	0.0452	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.256	JBQ	0.0159	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0900	JB	0.0220	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.105	JB	0.0358	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.584	JBQ	0.0372	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.112	JB	0.0305	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.02	JB	0.0309	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.47	JB	0.0257	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.205	JB	0.0488	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.313	JBQ	0.0215	MDL	5.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.121	JBQ	0.0242	MDL	5.95	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0319	JB	0.0213	MDL	1.19	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0606	J	0.0267	MDL	1.19	PQL	ng/Kg	J	Z
OCDD	2.12	JB	0.0446	MDL	11.9	PQL	ng/Kg	J	Z
OCDF	0.390	JBQ	0.0661	MDL	11.9	PQL	ng/Kg	U	B

Sample ID: SL-094-SA8N-SB-7.5-8.5      Collected: 5/13/2011 10:35:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.314	JBQ	0.0340	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.167	JB	0.0131	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0740	JBQ	0.0193	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0515	JBQ	0.0196	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0441	JBQ	0.0258	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0485	JBQ	0.0174	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0648	JB	0.0229	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0750	JB	0.0198	MDL	5.52	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category:	SVOA	
Method:	1613B	Matrix: SO

Sample ID: SL-094-SA8N-SB-7.5-8.5      Collected: 5/13/2011 10:35:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0187	JB	0.0168	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0702	JBQ	0.0156	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0808	JB	0.0164	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0195	JQ	0.0189	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.894	JB	0.0399	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.201	JB	0.0547	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-095-SA8N-SB-4.0-5.0      Collected: 5/13/2011 11:43:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.257	JB	0.0349	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.135	JB	0.0116	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0866	JBQ	0.0193	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0474	JBQ	0.0209	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0425	JB	0.0158	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0650	JBQ	0.0214	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0318	JBQ	0.0127	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0791	JB	0.0202	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.126	JB	0.0159	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0273	JBQ	0.0258	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0459	JB	0.0135	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0557	JBQ	0.0141	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0672	JBQ	0.0138	MDL	5.65	PQL	ng/Kg	U	B
OCDD	0.579	JB	0.0355	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.285	JB	0.0499	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-096-SA8N-SB-4.0-5.0      Collected: 5/13/2011 9:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.342	JB	0.0366	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.161	JB	0.0126	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0677	JB	0.0219	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0498	JBQ	0.0267	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0645	JBQ	0.0220	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.208	JB	0.0277	MDL	5.83	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: SL-096-SA8N-SB-4.0-5.0	Collected: 5/13/2011 9:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0424	JBQ	0.0182	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.375	JB	0.0272	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.585	JBQ	0.0247	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0431	JB	0.0293	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0871	JB	0.0169	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0839	JBQ	0.0197	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0521	JB	0.0170	MDL	5.83	PQL	ng/Kg	U	B
OCDD	0.767	JB	0.0386	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.215	JBQ	0.0542	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-096-SA8N-SB-9.0-10.0	Collected: 5/13/2011 9:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.321	JB	0.0384	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.168	JB	0.0137	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0771	JB	0.0227	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0859	JB	0.0176	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.286	JB	0.0351	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0695	JB	0.0163	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.504	JB	0.0361	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.244	JBQ	0.0189	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0984	JBQ	0.0287	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0656	JB	0.0166	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0614	JBQ	0.0168	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0580	JBQ	0.0167	MDL	5.72	PQL	ng/Kg	U	B
OCDD	0.886	JB	0.0445	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.304	JB	0.0546	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-104-SA8N-SB-4.0-5.0	Collected: 5/13/2011 2:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.337	JB	0.0412	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.216	JB	0.0119	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.110	JBQ	0.0227	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0591	JBQ	0.0265	MDL	5.54	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category:	SVOA		
Method:	1613B	Matrix:	SO

Sample ID: SL-104-SA8N-SB-4.0-5.0      Collected: 5/13/2011 2:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.102	JBQ	0.0227	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.111	JB	0.0269	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0846	JB	0.0200	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0804	JBQ	0.0268	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.134	JBQ	0.0247	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0988	JBQ	0.0303	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0761	JBQ	0.0156	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.115	JBQ	0.0209	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.109	JB	0.0163	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0239	JB	0.0203	MDL	1.11	PQL	ng/Kg	U	B
OCDD	1.20	JB	0.0457	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.304	JB	0.0643	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-104-SA8N-SB-9.0-10.0      Collected: 5/13/2011 3:06:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.257	JB	0.0234	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.231	JB	0.00876	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0827	JB	0.0133	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.104	JBQ	0.0200	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.131	JB	0.0174	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0850	JBQ	0.0205	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.131	JB	0.0154	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0994	JB	0.0191	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.118	JB	0.0149	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.170	JB	0.0129	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.145	JBQ	0.0140	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.182	JB	0.0128	MDL	5.81	PQL	ng/Kg	U	B
OCDD	0.651	JB	0.0192	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.288	JB	0.0276	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-167-SA5A-SB-1.0-2.0      Collected: 5/16/2011 4:17:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.70	JB	0.0227	MDL	5.30	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-167-SA5A-SB-1.0-2.0

Collected: 5/16/2011 4:17:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.172	JBQ	0.0361	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.337	JB	0.0314	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.324	JB	0.0339	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.128	JB	0.0272	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.156	JB	0.0312	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.104	JBQ	0.0311	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0568	JBQ	0.0237	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0854	JBQ	0.0193	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.126	JBQ	0.0280	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0833	JB	0.0188	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0278	JBQ	0.0195	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0288	JQ	0.0250	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	5.40	JB	0.0342	MDL	10.6	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

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

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## **Enclosure I**

### **EPA Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DX081

# Method Blank Outlier Report

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1370B371148	5/20/2011 11:48:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD 2,3,7,8-TCDF OCDD OCDF	1.77 pg/L 1.41 pg/L 0.428 pg/L 0.220 pg/L 0.400 pg/L 0.252 pg/L 0.354 pg/L 0.381 pg/L 0.396 pg/L 0.307 pg/L 0.399 pg/L 0.588 pg/L 0.128 pg/L 0.106 pg/L 3.80 pg/L 1.48 pg/L	EB15-SA5A-SB-051611

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB15-SA5A-SB-051611(RES)	1,2,3,4,6,7,8-HPCDD	3.17 pg/L	3.17U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,6,7,8-HPCDF	2.21 pg/L	2.21U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,7,8,9-HPCDF	1.01 pg/L	1.01U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,7,8-HxCDD	0.449 pg/L	0.449U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,4,7,8-HXCDF	0.477 pg/L	0.477U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,6,7,8-HxCDD	0.644 pg/L	0.644U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,6,7,8-HXCDF	0.609 pg/L	0.609U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,7,8,9-HxCDD	0.749 pg/L	0.749U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,7,8,9-HXCDF	0.577 pg/L	0.577U pg/L
EB15-SA5A-SB-051611(RES)	1,2,3,7,8-PECDD	0.430 pg/L	0.430U pg/L
EB15-SA5A-SB-051611(RES)	2,3,4,6,7,8-HXCDF	0.879 pg/L	0.879U pg/L
EB15-SA5A-SB-051611(RES)	2,3,4,7,8-PECDF	0.720 pg/L	0.720U pg/L
EB15-SA5A-SB-051611(RES)	2,3,7,8-TCDD	0.482 pg/L	0.482U pg/L
EB15-SA5A-SB-051611(RES)	OCDD	5.95 pg/L	5.95U pg/L
EB15-SA5A-SB-051611(RES)	OCDF	0.932 pg/L	0.932U pg/L

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1370B371826	5/19/2011 6:26:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.254 ng/Kg 0.188 ng/Kg 0.106 ng/Kg 0.0292 ng/Kg 0.0716 ng/Kg 0.0513 ng/Kg 0.0503 ng/Kg 0.0377 ng/Kg 0.0917 ng/Kg 0.0632 ng/Kg 0.0253 ng/Kg 0.0914 ng/Kg 0.0780 ng/Kg 0.0449 ng/Kg 0.399 ng/Kg 0.292 ng/Kg	SL-094-SA8N-SB-4.0-5.0 SL-094-SA8N-SB-7.5-8.5 SL-095-SA8N-SB-4.0-5.0 SL-096-SA8N-SB-4.0-5.0 SL-096-SA8N-SB-9.0-10.0 SL-104-SA8N-SB-4.0-5.0 SL-104-SA8N-SB-9.0-10.0
BLK1400B371308	5/23/2011 1:08:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.220 ng/Kg 0.126 ng/Kg 0.125 ng/Kg 0.0299 ng/Kg 0.0532 ng/Kg 0.0525 ng/Kg 0.0551 ng/Kg 0.0535 ng/Kg 0.0750 ng/Kg 0.0656 ng/Kg 0.0647 ng/Kg 0.0526 ng/Kg 0.0777 ng/Kg 0.0352 ng/Kg 0.489 ng/Kg 0.335 ng/Kg	DUP-17-SA5A-QC-051611 SL-002-SA5DN-SB-4.0-5.0 SL-002-SA5DN-SB-9.0-10.0 SL-003-SA5DN-SB-0.5-1.5 SL-003-SA5DN-SB-8.0-9.0 SL-004-SA5DN-SB-3.5-4.5 SL-004-SA5DN-SB-9.0-10.0 SL-042-SA5A-SB-3.5-4.5 SL-167-SA5A-SB-1.0-2.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-17-SA5A-QC-051611(RES)	1,2,3,7,8-PECDD	0.307 ng/Kg	0.307U ng/Kg
DUP-17-SA5A-QC-051611(RES)	1,2,3,7,8-PECDF	0.253 ng/Kg	0.253U ng/Kg
DUP-17-SA5A-QC-051611(RES)	2,3,4,7,8-PECDF	0.343 ng/Kg	0.343U ng/Kg
DUP-17-SA5A-QC-051611(RES)	2,3,7,8-TCDD	0.114 ng/Kg	0.114U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.341 ng/Kg	0.341U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0634 ng/Kg	0.0634U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0352 ng/Kg	0.0352U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.133 ng/Kg	0.133U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.244 ng/Kg	0.244U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.343 ng/Kg	0.343U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0810 ng/Kg	0.0810U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0609 ng/Kg	0.0609U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0564 ng/Kg	0.0564U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-002-SA5DN-SB-4.0-5.0(RES)	OCDD	1.53 ng/Kg	1.53U ng/Kg
SL-002-SA5DN-SB-4.0-5.0(RES)	OCDF	0.315 ng/Kg	0.315U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.280 ng/Kg	0.280U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0403 ng/Kg	0.0403U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0350 ng/Kg	0.0350U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0544 ng/Kg	0.0544U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0501 ng/Kg	0.0501U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0262 ng/Kg	0.0262U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0124 ng/Kg	0.0124U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0501 ng/Kg	0.0501U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	OCDD	1.77 ng/Kg	1.77U ng/Kg
SL-002-SA5DN-SB-9.0-10.0(RES)	OCDF	0.263 ng/Kg	0.263U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDF	0.291 ng/Kg	0.291U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,7,8,9-HPCDF	0.126 ng/Kg	0.126U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,7,8-HxCDD	0.0898 ng/Kg	0.0898U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,4,7,8-HXCDF	0.179 ng/Kg	0.179U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,6,7,8-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	1,2,3,7,8-PECDD	0.226 ng/Kg	0.226U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	2,3,4,6,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	2,3,4,7,8-PECDF	0.241 ng/Kg	0.241U ng/Kg
SL-003-SA5DN-SB-0.5-1.5(RES)	OCDF	0.704 ng/Kg	0.704U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.377 ng/Kg	0.377U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.194 ng/Kg	0.194U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.110 ng/Kg	0.110U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0831 ng/Kg	0.0831U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.101 ng/Kg	0.101U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDF	0.194 ng/Kg	0.194U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDD	0.163 ng/Kg	0.163U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.203 ng/Kg	0.203U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg

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

8/11/2011 8:35:43 AM

ADR version 1.4.0.111

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-003-SA5DN-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.184 ng/Kg	0.184U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	2,3,7,8-TCDD	0.0860 ng/Kg	0.0860U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	OCDD	1.11 ng/Kg	1.11U ng/Kg
SL-003-SA5DN-SB-8.0-9.0(RES)	OCDF	0.369 ng/Kg	0.369U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.658 ng/Kg	0.658U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.205 ng/Kg	0.205U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0813 ng/Kg	0.0813U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDF	0.135 ng/Kg	0.135U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,6,7,8-HxCDF	0.125 ng/Kg	0.125U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.218 ng/Kg	0.218U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	2,3,4,6,7,8-HxCDF	0.124 ng/Kg	0.124U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.166 ng/Kg	0.166U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	2,3,7,8-TCDD	0.0555 ng/Kg	0.0555U ng/Kg
SL-004-SA5DN-SB-3.5-4.5(RES)	OCDF	0.373 ng/Kg	0.373U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.211 ng/Kg	0.211U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0549 ng/Kg	0.0549U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0311 ng/Kg	0.0311U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0860 ng/Kg	0.0860U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0625 ng/Kg	0.0625U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0650 ng/Kg	0.0650U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0638 ng/Kg	0.0638U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.110 ng/Kg	0.110U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0696 ng/Kg	0.0696U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0952 ng/Kg	0.0952U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0274 ng/Kg	0.0274U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	OCDD	0.602 ng/Kg	0.602U ng/Kg
SL-004-SA5DN-SB-9.0-10.0(RES)	OCDF	0.212 ng/Kg	0.212U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.371 ng/Kg	0.371U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDF	0.215 ng/Kg	0.215U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,6,7,8-HxCDF	0.196 ng/Kg	0.196U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8,9-HxCDD	0.260 ng/Kg	0.260U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8,9-HxCDF	0.157 ng/Kg	0.157U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.101 ng/Kg	0.101U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-042-SA5A-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0835 ng/Kg	0.0835U ng/Kg
SL-042-SA5A-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.590 ng/Kg	0.590U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.256 ng/Kg	0.256U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0900 ng/Kg	0.0900U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.205 ng/Kg	0.205U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0319 ng/Kg	0.0319U ng/Kg
SL-094-SA8N-SB-4.0-5.0(RES)	OCDF	0.390 ng/Kg	0.390U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.314 ng/Kg	0.314U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.167 ng/Kg	0.167U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0740 ng/Kg	0.0740U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,4,7,8-HXCDF	0.0515 ng/Kg	0.0515U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.0441 ng/Kg	0.0441U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0648 ng/Kg	0.0648U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.0750 ng/Kg	0.0750U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.0187 ng/Kg	0.0187U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0808 ng/Kg	0.0808U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	OCDD	0.894 ng/Kg	0.894U ng/Kg
SL-094-SA8N-SB-7.5-8.5(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.257 ng/Kg	0.257U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.135 ng/Kg	0.135U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0866 ng/Kg	0.0866U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0474 ng/Kg	0.0474U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0425 ng/Kg	0.0425U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0650 ng/Kg	0.0650U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0318 ng/Kg	0.0318U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0791 ng/Kg	0.0791U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0273 ng/Kg	0.0273U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0459 ng/Kg	0.0459U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0557 ng/Kg	0.0557U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0672 ng/Kg	0.0672U ng/Kg

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

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## Method Blank Outlier Report

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-095-SA8N-SB-4.0-5.0(RES)	OCDD	0.579 ng/Kg	0.579U ng/Kg
SL-095-SA8N-SB-4.0-5.0(RES)	OCDF	0.285 ng/Kg	0.285U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.342 ng/Kg	0.342U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.161 ng/Kg	0.161U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0677 ng/Kg	0.0677U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0498 ng/Kg	0.0498U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0645 ng/Kg	0.0645U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.208 ng/Kg	0.208U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0424 ng/Kg	0.0424U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0431 ng/Kg	0.0431U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0871 ng/Kg	0.0871U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	OCDD	0.767 ng/Kg	0.767U ng/Kg
SL-096-SA8N-SB-4.0-5.0(RES)	OCDF	0.215 ng/Kg	0.215U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.321 ng/Kg	0.321U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0771 ng/Kg	0.0771U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0859 ng/Kg	0.0859U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0695 ng/Kg	0.0695U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.244 ng/Kg	0.244U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0984 ng/Kg	0.0984U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0656 ng/Kg	0.0656U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0614 ng/Kg	0.0614U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	OCDD	0.886 ng/Kg	0.886U ng/Kg
SL-096-SA8N-SB-9.0-10.0(RES)	OCDF	0.304 ng/Kg	0.304U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.337 ng/Kg	0.337U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.216 ng/Kg	0.216U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.110 ng/Kg	0.110U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0591 ng/Kg	0.0591U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.102 ng/Kg	0.102U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.111 ng/Kg	0.111U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0804 ng/Kg	0.0804U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.134 ng/Kg	0.134U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0988 ng/Kg	0.0988U ng/Kg

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

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## Method Blank Outlier Report

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-104-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0761 ng/Kg	0.0761U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.109 ng/Kg	0.109U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0239 ng/Kg	0.0239U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	OCDD	1.20 ng/Kg	1.20U ng/Kg
SL-104-SA8N-SB-4.0-5.0(RES)	OCDF	0.304 ng/Kg	0.304U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.257 ng/Kg	0.257U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.231 ng/Kg	0.231U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0827 ng/Kg	0.0827U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.104 ng/Kg	0.104U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0850 ng/Kg	0.0850U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0994 ng/Kg	0.0994U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.182 ng/Kg	0.182U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	OCDD	0.651 ng/Kg	0.651U ng/Kg
SL-104-SA8N-SB-9.0-10.0(RES)	OCDF	0.288 ng/Kg	0.288U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.172 ng/Kg	0.172U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.128 ng/Kg	0.128U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.156 ng/Kg	0.156U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.0568 ng/Kg	0.0568U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	1,2,3,7,8-PECDF	0.0854 ng/Kg	0.0854U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-167-SA5A-SB-1.0-2.0(RES)	2,3,7,8-TCDD	0.0278 ng/Kg	0.0278U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-042-SA5A-SB-3.5-4.5MSD (SL-042-SA5A-SB-3.5-4.5)	1,2,3,4,6,7,8-HPCDD OCDD	-	147 343	40.00-135.00 40.00-135.00	39 (20.00) 86 (20.00)	1,2,3,4,6,7,8-HPCDD OCDD	J (all detects)

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: PrepDX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 160.3M**  
**Matrix: SO**

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA5A-SB-3.5-4.5	DUP-17-SA5A-QC-051611			
MOISTURE	12.2	11.9	2		No Qualifiers Applied

**Method: 1613B**  
**Matrix: SO**

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-042-SA5A-SB-3.5-4.5	DUP-17-SA5A-QC-051611			
OCDD	150	247	49	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDD	12.6	24.2	63	50.00	J(all detects) JJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	2.06	4.92	82	50.00	
1,2,3,4,7,8,9-HPCDF	0.371	1.11	100	50.00	
1,2,3,4,7,8-HxCDD	0.178	0.421	81	50.00	
1,2,3,4,7,8-HXCDF	0.215	0.543	87	50.00	
1,2,3,6,7,8-HxCDD	0.579	1.42	84	50.00	
1,2,3,6,7,8-HXCDF	0.196	0.512	89	50.00	
1,2,3,7,8,9-HxCDD	0.260	0.701	92	50.00	
1,2,3,7,8,9-HXCDF	0.157	0.403	88	50.00	
1,2,3,7,8-PECDD	0.101	0.307	101	50.00	
1,2,3,7,8-PECDF	0.0835	0.253	101	50.00	
2,3,4,6,7,8-HXCDF	0.292	0.773	90	50.00	
2,3,4,7,8-PECDF	0.111	0.343	102	50.00	
2,3,7,8-TCDD	1.09 U	0.114	200	50.00	
2,3,7,8-TCDF	0.0432	0.102	81	50.00	
OCDF	4.68	10.9	80	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB15-SA5A-SB-051611	1,2,3,4,6,7,8-HPCDD	J	3.17	10.7	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	J	2.21	10.7	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	J	1.01	10.7	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	J	0.449	10.7	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	J	0.477	10.7	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JQ	0.644	10.7	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	J	0.609	10.7	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	J	0.749	10.7	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JQ	0.577	10.7	PQL	pg/L	
	1,2,3,7,8-PECDD	JQ	0.430	10.7	PQL	pg/L	
	1,2,3,7,8-PECDF	J	0.168	10.7	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JQ	0.879	10.7	PQL	pg/L	
	2,3,4,7,8-PECDF	J	0.720	10.7	PQL	pg/L	
	2,3,7,8-TCDD	JQ	0.482	2.14	PQL	pg/L	
	OCDD	JQ	5.95	21.4	PQL	pg/L	
OCDF	JQ	0.932	21.4	PQL	pg/L		

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-17-SA5A-QC-051611	1,2,3,4,6,7,8-HPCDF	JB	4.92	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	1.11	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.421	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.543	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.42	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.512	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.701	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.403	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.307	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.253	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.773	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.343	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.114	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.102	1.11	PQL	ng/Kg	
	OCDF	JB	10.9	11.1	PQL	ng/Kg	
SL-002-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.341	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.134	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0634	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0352	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.133	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0415	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.244	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.343	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0810	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0609	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0924	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0564	5.66	PQL	ng/Kg	
	OCDD	JB	1.53	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.315	11.3	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.280	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.111	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0403	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0526	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0314	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0350	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0544	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0501	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0262	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0124	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0501	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0636	5.55	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0203	1.11	PQL	ng/Kg	
	OCDD	JBQ	1.77	11.1	PQL	ng/Kg	
OCDF	JBQ	0.263	11.1	PQL	ng/Kg		
SL-003-SA5DN-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JB	1.11	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.291	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.126	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0898	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.179	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.615	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.144	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.988	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.09	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.226	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.367	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.136	5.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.241	5.95	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.143	1.19	PQL	ng/Kg	
OCDF	JBQ	0.704	11.9	PQL	ng/Kg		
SL-003-SA5DN-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.377	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.194	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.110	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0831	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.133	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.108	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.110	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.101	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.194	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.163	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.203	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.131	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.184	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0860	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0652	1.11	PQL	ng/Kg	
	OCDD	JBQ	1.11	11.1	PQL	ng/Kg	
	OCDF	JB	0.369	11.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA5DN-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.658	5.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.205	5.98	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.105	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0813	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.135	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.563	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.125	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.939	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	1.54	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.218	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.437	5.98	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.124	5.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.166	5.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0555	1.20	PQL	ng/Kg	
	OCDD	JB	6.06	12.0	PQL	ng/Kg	
	OCDF	JBQ	0.373	12.0	PQL	ng/Kg	
SL-004-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.211	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.115	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0549	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0311	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0860	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0625	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0673	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0650	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0638	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.110	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0833	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0696	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0952	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0274	1.12	PQL	ng/Kg	
2,3,7,8-TCDF	JQ	0.0461	1.12	PQL	ng/Kg		
OCDD	JB	0.602	11.2	PQL	ng/Kg		
OCDF	JB	0.212	11.2	PQL	ng/Kg		
SL-042-SA5A-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDF	JB	2.06	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.371	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.178	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.215	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.579	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.196	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.260	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.157	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.101	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0835	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.292	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.111	5.45	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0432	1.09	PQL	ng/Kg	
	OCDF	JB	4.68	10.9	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-094-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.590	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.256	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0900	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.105	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.584	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.112	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.02	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.47	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.205	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.313	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.121	5.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0319	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0606	1.19	PQL	ng/Kg	
	OCDD	JB	2.12	11.9	PQL	ng/Kg	
	OCDF	JBQ	0.390	11.9	PQL	ng/Kg	
SL-094-SA8N-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.314	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.167	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0740	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0515	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0441	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0485	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0648	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0750	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0187	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0702	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0808	5.52	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0195	1.10	PQL	ng/Kg	
	OCDD	JB	0.894	11.0	PQL	ng/Kg	
OCDF	JB	0.201	11.0	PQL	ng/Kg		
SL-095-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.257	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.135	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0866	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0474	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0425	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0650	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0318	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0791	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.126	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0273	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0459	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0557	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0672	5.65	PQL	ng/Kg	
	OCDD	JB	0.579	11.3	PQL	ng/Kg	
	OCDF	JB	0.285	11.3	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-096-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.342	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.161	5.83	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0677	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0498	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0645	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.208	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0424	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.375	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.585	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0431	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0871	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0839	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0521	5.83	PQL	ng/Kg	
	OCDD	JB	0.767	11.7	PQL	ng/Kg	
OCDF	JBQ	0.215	11.7	PQL	ng/Kg		
SL-096-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.321	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.168	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0771	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0859	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.286	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0695	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.504	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.244	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0984	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0656	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0614	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0580	5.72	PQL	ng/Kg	
	OCDD	JB	0.886	11.4	PQL	ng/Kg	
	OCDF	JB	0.304	11.4	PQL	ng/Kg	
SL-104-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.337	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.216	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.110	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0591	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.102	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.111	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0846	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0804	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.134	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0988	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0761	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.115	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.109	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0239	1.11	PQL	ng/Kg	
	OCDD	JB	1.20	11.1	PQL	ng/Kg	
OCDF	JB	0.304	11.1	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX081

Laboratory: LL

EDD Filename: DX081\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-104-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.257	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.231	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0827	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.104	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.131	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0850	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.131	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0994	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.118	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.170	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.145	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.182	5.81	PQL	ng/Kg	
	OCDD	JB	0.651	11.6	PQL	ng/Kg	
	OCDF	JB	0.288	11.6	PQL	ng/Kg	
SL-167-SA5A-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDF	JB	1.70	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.172	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.337	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.324	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.128	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.156	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.104	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0568	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0854	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.126	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0833	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0278	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0288	1.06	PQL	ng/Kg	
	OCDF	JB	5.40	10.6	PQL	ng/Kg	

# SAMPLE DELIVERY GROUP

DX082

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-May-2011	SL-254-SA5A-SS-0.0-0.5	6290784	N	METHOD	1613B	III
17-May-2011	SL-072-SA5DN-SS-0.0-0.5	6290788	N	METHOD	1613B	III
17-May-2011	SL-072-SA5DN-SS-0.0-0.5MS	6290789	MS	METHOD	1613B	III
17-May-2011	SL-072-SA5DN-SS-0.0-0.5MSD	6290790	MSD	METHOD	1613B	III
17-May-2011	DUP-01-SA5DN-QC-051711	6290785	FD	METHOD	1613B	III
17-May-2011	SL-075-SA5DN-SS-0.0-0.5	6290792	N	METHOD	1613B	III
17-May-2011	SL-076-SA5DN-SS-0.0-0.5	6290793	N	METHOD	1613B	III
17-May-2011	SL-074-SA5DN-SS-0.0-0.5	6290791	N	METHOD	1613B	III
17-May-2011	SL-067-SA5DN-SS-0.0-0.5	6290787	N	METHOD	1613B	III
17-May-2011	SL-079-SA5DN-SS-0.0-0.5	6290794	N	METHOD	1613B	III
17-May-2011	SL-080-SA5DN-SS-0.0-0.5	6290795	N	METHOD	1613B	III
17-May-2011	EB01-SA5DN-SS-051711	6290801	EB	METHOD	1613B	III
17-May-2011	SL-082-SA5DN-SS-0.0-0.5	6290797	N	METHOD	1613B	III
17-May-2011	SL-081-SA5DN-SS-0.0-0.5	6290796	N	METHOD	1613B	III
17-May-2011	SL-084-SA5DN-SS-0.0-0.5	6290799	N	METHOD	1613B	III
17-May-2011	SL-083-SA5DN-SS-0.0-0.5	6290798	N	METHOD	1613B	III
17-May-2011	SL-206-SA5DN-SS-0.0-0.5	6290800	N	METHOD	1613B	III
17-May-2011	SL-066-SA5DN-SS-0.0-0.5	6290786	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> AQ

Sample ID: EB01-SA5DN-SS-051711

Collected: 5/17/2011 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.44	JB	0.263	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.41	JBQ	0.133	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.618	JB	0.159	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.324	JBQ	0.213	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.540	JBQ	0.200	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDD	0.467	JBQ	0.220	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.439	JBQ	0.187	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.837	JBQ	0.193	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.380	JBQ	0.182	MDL	10.5	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.556	JB	0.180	MDL	10.5	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.717	JBQ	0.156	MDL	10.5	PQL	pg/L	U	B
2,3,7,8-TCDD	0.390	JBQ	0.363	MDL	2.09	PQL	pg/L	U	B
OCDD	4.71	JBQ	0.298	MDL	20.9	PQL	pg/L	U	B
OCDF	1.38	JBQ	0.356	MDL	20.9	PQL	pg/L	U	B

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: DUP-01-SA5DN-QC-051711

Collected: 5/17/2011 8:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.55	JB	0.0606	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.29	JB	0.0593	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.00	JB	0.0612	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	4.96	JB	0.0600	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.34	JB	0.0548	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.53	JB	0.0591	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.08	JB	0.0525	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.995	JB	0.0439	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.711	JBQ	0.0377	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.21	JB	0.0465	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.965	JB	0.0365	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.112	JQ	0.0204	MDL	1.09	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.249	J	0.0724	MDL	1.09	PQL	ng/Kg	J	Z, FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<b>Sample ID: SL-066-SA5DN-SS-0.0-0.5      Collected: 5/17/2011 3:25:00      Analysis Type: RES      Dilution: 1</b>									
Analyte									
1,2,3,4,7,8,9-HPCDF	2.32	JB	0.0514	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.01	JB	0.0540	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.44	JB	0.0487	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.72	JB	0.0434	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.39	JB	0.0410	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.24	JBQ	0.0452	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.553	JB	0.0384	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.74	JB	0.0345	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.13	JBQ	0.0372	MDL	5.35	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.290	JQ	0.0215	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.624	J	0.0689	MDL	1.07	PQL	ng/Kg	J	Z

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<b>Sample ID: SL-067-SA5DN-SS-0.0-0.5      Collected: 5/17/2011 10:15:00      Analysis Type: RES      Dilution: 1</b>									
Analyte									
1,2,3,4,7,8,9-HPCDF	1.79	JB	0.0604	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.72	JB	0.0543	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.08	JB	0.0710	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.28	JB	0.0594	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	4.37	JB	0.0518	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.76	JB	0.0498	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.03	JB	0.0558	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.726	JB	0.0358	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.38	JB	0.0403	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.997	JB	0.0360	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.296	JQ	0.0211	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.758	J	0.0754	MDL	1.08	PQL	ng/Kg	J	Z

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<b>Sample ID: SL-072-SA5DN-SS-0-0.5      Collected: 5/17/2011 8:40:00      Analysis Type: RES      Dilution: 1</b>									
Analyte									
1,2,3,4,6,7,8-HPCDD	112	B	0.160	MDL	5.51	PQL	ng/Kg	J	Q
1,2,3,4,7,8,9-HPCDF	1.10	JB	0.0726	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.42	JB	0.0818	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.52	JB	0.0902	MDL	5.51	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<b>Sample ID: SL-072-SA5DN-SS-0-0.5</b> <b>Collected: 5/17/2011 8:40:00</b> <b>Analysis Type: RES</b> <b>Dilution: 1</b>									
Analyte									
1,2,3,6,7,8-HXCDD	4.53	JB	0.0853	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.39	JB	0.0792	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.36	JB	0.0812	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.855	JB	0.0570	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	1.23	JB	0.0543	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.662	JB	0.0417	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.02	JB	0.0482	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.11	JB	0.0396	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.242	J	0.0269	MDL	1.10	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.483	J	0.0680	MDL	1.10	PQL	ng/Kg	J	Z, FD

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<b>Sample ID: SL-074-SA5DN-SS-0-0-0.5</b> <b>Collected: 5/17/2011 10:00:00</b> <b>Analysis Type: RES</b> <b>Dilution: 1</b>									
Analyte									
1,2,3,4,7,8,9-HPCDF	1.67	JB	0.0512	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.04	JB	0.0572	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.62	JB	0.0534	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.05	JB	0.0605	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.24	JB	0.0428	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.92	JB	0.0600	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.14	JB	0.0415	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.911	JB	0.0436	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.886	JBQ	0.0270	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.37	JB	0.0370	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.971	JB	0.0245	MDL	5.33	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.221	J	0.0215	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.362	JQ	0.0438	MDL	1.07	PQL	ng/Kg	J	Z

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<b>Sample ID: SL-075-SA5DN-SS-0-0-0.5</b> <b>Collected: 5/17/2011 9:10:00</b> <b>Analysis Type: RES</b> <b>Dilution: 1</b>									
Analyte									
1,2,3,4,7,8,9-HPCDF	0.728	JB	0.0412	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.336	JB	0.0535	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.14	JB	0.101	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.25	JB	0.0548	MDL	5.95	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: SL-075-SA5DN-SS-0.0-0.5      Collected: 5/17/2011 9:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.797	JB	0.0834	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.96	JB	0.0499	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.52	JB	0.0413	MDL	5.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.320	JBQ	0.0396	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.368	JB	0.0344	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.598	JB	0.0350	MDL	5.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.887	JBQ	0.0338	MDL	5.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0396	JQ	0.0231	MDL	1.19	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.221	JQ	0.0544	MDL	1.19	PQL	ng/Kg	J	Z

Sample ID: SL-076-SA5DN-SS-0.0-0.5      Collected: 5/17/2011 9:35:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.06	JB	0.0533	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.66	JB	0.0719	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.11	JB	0.0547	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.23	JB	0.0768	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.682	JB	0.0525	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.12	JB	0.0719	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.23	JB	0.0481	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.953	JB	0.0569	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.460	JB	0.0315	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.753	JB	0.0457	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.729	JB	0.0303	MDL	5.38	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.258	JBQ	0.0234	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.262	JBQ	0.0612	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-079-SA5DN-SS-0.0-0.5      Collected: 5/17/2011 10:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.65	JB	0.0448	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.77	JB	0.0571	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.83	JB	0.0927	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.45	JB	0.0604	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.47	JB	0.0810	MDL	5.51	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-079-SA5DN-SS-0.0-0.5	Collected: 5/17/2011 10:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	4.37	JB	0.0531	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.55	JB	0.0382	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.992	JB	0.0396	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.433	JB	0.0311	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.16	JB	0.0315	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.684	JB	0.0287	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.188	JQ	0.0224	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.325	JQ	0.0544	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: SL-080-SA5DN-SS-0.0-0.5	Collected: 5/17/2011 11:10:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.23	JB	0.0634	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.02	JB	0.0972	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.40	JB	0.0599	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	5.41	JB	0.103	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.819	JB	0.0568	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.94	JB	0.0996	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.46	JB	0.0614	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.31	JB	0.0663	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.940	JB	0.0416	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.876	JB	0.0520	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.746	JB	0.0402	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.261	JBQ	0.0289	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.188	JB	0.0949	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: SL-081-SA5DN-SS-0.0-0.5	Collected: 5/17/2011 1:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.761	JB	0.0358	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.00	JB	0.0437	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.900	JB	0.0423	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.03	JB	0.0436	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.610	JB	0.0385	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.53	JB	0.0426	MDL	5.27	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: SL-081-SA5DN-SS-0.0-0.5      Collected: 5/17/2011 1:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	1.04	JB	0.0341	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.541	JBQ	0.0361	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.267	JBQ	0.0271	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.663	JB	0.0290	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.660	JB	0.0268	MDL	5.27	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.233	J	0.0222	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-082-SA5DN-SS-0.0-0.5      Collected: 5/17/2011 1:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.722	JBQ	0.0367	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.63	JB	0.0495	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.07	JB	0.0670	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.18	JB	0.0508	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.565	JB	0.0562	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.20	JB	0.0450	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.16	JB	0.0427	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.935	JB	0.0411	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.327	JB	0.0400	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.556	JB	0.0326	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.478	JB	0.0387	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.143	JQ	0.0196	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.306	J	0.0735	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: SL-083-SA5DN-SS-0.0-0.5      Collected: 5/17/2011 2:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.03	JB	0.0562	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.38	JB	0.0677	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.10	JB	0.0585	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.660	JB	0.0554	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.07	JB	0.0571	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.95	JB	0.0707	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.359	JB	0.0276	MDL	5.43	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.781	JB	0.0525	MDL	5.43	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

# Data Qualifier Summary

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

<b>Sample ID:</b> SL-083-SA5DN-SS-0.0-0.5	<b>Collected:</b> 5/17/2011 2:25:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.560	JBQ	0.0264	MDL	5.43	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.360	JB	0.0200	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.261	JBQ	0.0572	MDL	1.09	PQL	ng/Kg	J	Z

<b>Sample ID:</b> SL-084-SA5DN-SS-0.0-0.5	<b>Collected:</b> 5/17/2011 1:55:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.909	JB	0.0422	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.68	JB	0.0536	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.29	JB	0.0788	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.892	JB	0.0670	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.00	JB	0.0339	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.72	JB	0.0430	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.520	JB	0.0329	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.761	JB	0.0327	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.896	JB	0.0304	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.383	J	0.0275	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.285	J	0.0511	MDL	1.07	PQL	ng/Kg	J	Z

<b>Sample ID:</b> SL-206-SA5DN-SS-0.0-0.5	<b>Collected:</b> 5/17/2011 2:50:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.860	JB	0.0469	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.69	JB	0.0623	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.40	JB	0.0789	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.890	JB	0.0656	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.05	JB	0.0413	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.15	JB	0.0566	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.450	JB	0.0255	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.823	JB	0.0322	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.647	JB	0.0252	MDL	5.61	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.455	J	0.0278	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.320	J	0.0474	MDL	1.12	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA		
<b>Method:</b>	1613B	<b>Matrix:</b>	SO

Sample ID: SL-254-SA5A-SS-0.0-0.5

Collected: 5/16/2011 5:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.36	JB	0.0157	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.230	JBQ	0.0220	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.281	JBQ	0.0378	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.642	JB	0.0373	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.707	JB	0.0389	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.221	JB	0.0330	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.767	JB	0.0383	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.276	JB	0.0367	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.199	JB	0.0340	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.148	JB	0.0323	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.332	JB	0.0330	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.651	JB	0.0312	MDL	5.12	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.217	J	0.0206	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.219	JQ	0.0539	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	7.17	JB	0.0361	MDL	10.2	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX082  
 EDD Filename: PrepDX082\_v1

Laboratory: LL  
 eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

# Data Qualifier Summary

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

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

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## **Enclosure I**

### **EPA Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DX082

# Method Blank Outlier Report

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: DX082\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1400B370746	5/25/2011 7:46:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	2.50 pg/L 1.49 pg/L 0.992 pg/L 0.648 pg/L 0.579 pg/L 0.598 pg/L 0.716 pg/L 0.427 pg/L 1.14 pg/L 1.03 pg/L 0.573 pg/L 0.697 pg/L 0.830 pg/L 0.410 pg/L 6.14 pg/L 3.26 pg/L	EB01-SA5DN-SS-051711

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB01-SA5DN-SS-051711(RES)	1,2,3,4,6,7,8-HPCDD	2.44 pg/L	2.44U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,4,6,7,8-HPCDF	1.41 pg/L	1.41U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,4,7,8,9-HPCDF	0.618 pg/L	0.618U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,4,7,8-HxCDD	0.324 pg/L	0.324U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,4,7,8-HXCDF	0.540 pg/L	0.540U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,6,7,8-HXCDD	0.467 pg/L	0.467U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,6,7,8-HXCDF	0.439 pg/L	0.439U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,7,8,9-HXCDF	0.837 pg/L	0.837U pg/L
EB01-SA5DN-SS-051711(RES)	1,2,3,7,8-PECDF	0.380 pg/L	0.380U pg/L
EB01-SA5DN-SS-051711(RES)	2,3,4,6,7,8-HXCDF	0.556 pg/L	0.556U pg/L
EB01-SA5DN-SS-051711(RES)	2,3,4,7,8-PECDF	0.717 pg/L	0.717U pg/L
EB01-SA5DN-SS-051711(RES)	2,3,7,8-TCDD	0.390 pg/L	0.390U pg/L
EB01-SA5DN-SS-051711(RES)	OCDD	4.71 pg/L	4.71U pg/L
EB01-SA5DN-SS-051711(RES)	OCDF	1.38 pg/L	1.38U pg/L

# Method Blank Outlier Report

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: DX082\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1450B370422	5/27/2011 4:22:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.283 ng/Kg 0.138 ng/Kg 0.147 ng/Kg 0.0482 ng/Kg 0.0751 ng/Kg 0.0877 ng/Kg 0.0777 ng/Kg 0.0784 ng/Kg 0.171 ng/Kg 0.112 ng/Kg 0.0823 ng/Kg 0.0947 ng/Kg 0.145 ng/Kg 0.724 ng/Kg 0.487 ng/Kg	DUP-01-SA5DN-QC-051711 SL-066-SA5DN-SS-0.0-0.5 SL-067-SA5DN-SS-0.0-0.5 SL-072-SA5DN-SS-0.0-0.5 SL-074-SA5DN-SS-0.0-0.5 SL-075-SA5DN-SS-0.0-0.5 SL-079-SA5DN-SS-0.0-0.5 SL-081-SA5DN-SS-0.0-0.5 SL-082-SA5DN-SS-0.0-0.5 SL-084-SA5DN-SS-0.0-0.5 SL-206-SA5DN-SS-0.0-0.5 SL-254-SA5A-SS-0.0-0.5
BLK1510B371538	6/3/2011 3:38:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD 2,3,7,8-TCDF OCDD OCDF	0.286 ng/Kg 0.161 ng/Kg 0.174 ng/Kg 0.107 ng/Kg 0.144 ng/Kg 0.114 ng/Kg 0.124 ng/Kg 0.149 ng/Kg 0.206 ng/Kg 0.125 ng/Kg 0.132 ng/Kg 0.134 ng/Kg 0.151 ng/Kg 0.0427 ng/Kg 0.0225 ng/Kg 0.448 ng/Kg 0.332 ng/Kg	SL-076-SA5DN-SS-0.0-0.5 SL-080-SA5DN-SS-0.0-0.5
BLK1510B371634	6/4/2011 4:34:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD 2,3,7,8-TCDF OCDD OCDF	0.200 ng/Kg 0.109 ng/Kg 0.0942 ng/Kg 0.0479 ng/Kg 0.0539 ng/Kg 0.0457 ng/Kg 0.0472 ng/Kg 0.0778 ng/Kg 0.111 ng/Kg 0.0560 ng/Kg 0.0666 ng/Kg 0.0660 ng/Kg 0.0691 ng/Kg 0.0218 ng/Kg 0.0191 ng/Kg 0.455 ng/Kg 0.232 ng/Kg	SL-083-SA5DN-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-072-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.855 ng/Kg	0.855U ng/Kg
SL-075-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.728 ng/Kg	0.728U ng/Kg
SL-075-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.320 ng/Kg	0.320U ng/Kg
SL-075-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.368 ng/Kg	0.368U ng/Kg
SL-076-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.460 ng/Kg	0.460U ng/Kg

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

8/11/2011 8:43:45 AM

ADR version 1.4.0.111

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: DX082\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-076-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.729 ng/Kg	0.729U ng/Kg
SL-079-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.684 ng/Kg	0.684U ng/Kg
SL-080-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.746 ng/Kg	0.746U ng/Kg
SL-081-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.541 ng/Kg	0.541U ng/Kg
SL-081-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.267 ng/Kg	0.267U ng/Kg
SL-081-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.660 ng/Kg	0.660U ng/Kg
SL-082-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.722 ng/Kg	0.722U ng/Kg
SL-082-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.327 ng/Kg	0.327U ng/Kg
SL-082-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.478 ng/Kg	0.478U ng/Kg
SL-206-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.647 ng/Kg	0.647U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.276 ng/Kg	0.276U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.199 ng/Kg	0.199U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.148 ng/Kg	0.148U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.332 ng/Kg	0.332U ng/Kg
SL-254-SA5A-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.651 ng/Kg	0.651U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: DX082\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-072-SA5DN-SS-0-0.5MS SL-072-SA5DN-SS-0-0.5MSD (SL-072-SA5DN-SS-0-0.5)	1,2,3,4,6,7,8-HPCDD OCDD	- 418	139 577	40.00-135.00 40.00-135.00	- -	1,2,3,4,6,7,8-HPCDD OCDD	J (all detects) OCDD No Qual, >4x

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: PrepDX082\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 160.3M**  
**Matrix: SO**

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-072-SA5DN-SS-0-0.5	DUP-01-SA5DN-QC-051711			
MOISTURE	10.5	9.3	12		No Qualifiers Applied

**Method: 1613B**  
**Matrix: SO**

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag	
	SL-072-SA5DN-SS-0-0.5	DUP-01-SA5DN-QC-051711				
1,2,3,4,6,7,8-HPCDD	112	140	22	50.00	No Qualifiers Applied	
1,2,3,4,6,7,8-HPCDF	19.0	27.4	36	50.00		
1,2,3,4,7,8,9-HPCDF	1.10	1.55	34	50.00		
1,2,3,4,7,8-HxCDD	2.42	2.29	6	50.00		
1,2,3,4,7,8-HxCDF	1.52	2.00	27	50.00		
1,2,3,6,7,8-HxCDD	4.53	4.96	9	50.00		
1,2,3,6,7,8-HxCDF	1.39	1.34	4	50.00		
1,2,3,7,8,9-HxCDD	3.36	3.53	5	50.00		
1,2,3,7,8,9-HxCDF	0.855	1.08	23	50.00		
1,2,3,7,8-PECDD	1.23	0.995	21	50.00		
1,2,3,7,8-PECDF	0.662	0.711	7	50.00		
2,3,4,6,7,8-HxCDF	1.02	1.21	17	50.00		
2,3,4,7,8-PECDF	1.11	0.965	14	50.00		
OCDD	1480	2150	37	50.00		
OCDF	26.9	35.5	28	50.00		
2,3,7,8-TCDD	0.242	0.112	73	50.00		J(all detects)
2,3,7,8-TCDF	0.483	0.249	64	50.00		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: DX082\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB01-SA5DN-SS-051711	1,2,3,4,6,7,8-HPCDD	JB	2.44	10.5	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	1.41	10.5	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.618	10.5	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.324	10.5	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.540	10.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.467	10.5	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.439	10.5	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.837	10.5	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.380	10.5	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.556	10.5	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.717	10.5	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.390	2.09	PQL	pg/L	
	OCDD	JBQ	4.71	20.9	PQL	pg/L	
	OCDF	JBQ	1.38	20.9	PQL	pg/L	

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-01-SA5DN-QC-051711	1,2,3,4,7,8,9-HPCDF	JB	1.55	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.29	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.00	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.96	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.34	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.53	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.08	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.995	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.711	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.21	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.965	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.112	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.249	1.09	PQL	ng/Kg	
SL-066-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.32	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.01	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.44	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.72	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.39	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	1.24	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.553	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.74	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.13	5.35	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.290	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.624	1.07	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: DX082\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-067-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.79	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.72	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	2.08	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.28	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	4.37	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	1.76	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.03	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.726	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.38	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.997	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.296	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.758	1.08	PQL	ng/Kg	
	SL-072-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.10	5.51	PQL	
1,2,3,4,7,8-HxCDD		JB	2.42	5.51	PQL	ng/Kg	
1,2,3,4,7,8-HxCDF		JB	1.52	5.51	PQL	ng/Kg	
1,2,3,6,7,8-HxCDD		JB	4.53	5.51	PQL	ng/Kg	
1,2,3,6,7,8-HxCDF		JB	1.39	5.51	PQL	ng/Kg	
1,2,3,7,8,9-HxCDD		JB	3.36	5.51	PQL	ng/Kg	
1,2,3,7,8,9-HxCDF		JB	0.855	5.51	PQL	ng/Kg	
1,2,3,7,8-PECDD		JB	1.23	5.51	PQL	ng/Kg	
1,2,3,7,8-PECDF		JB	0.662	5.51	PQL	ng/Kg	
2,3,4,6,7,8-HxCDF		JB	1.02	5.51	PQL	ng/Kg	
2,3,4,7,8-PECDF		JB	1.11	5.51	PQL	ng/Kg	
2,3,7,8-TCDD		J	0.242	1.10	PQL	ng/Kg	
2,3,7,8-TCDF		J	0.483	1.10	PQL	ng/Kg	
SL-074-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.67	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.04	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.62	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	4.05	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.24	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.92	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	2.14	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.911	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.886	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.37	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.971	5.33	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.221	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.362	1.07	PQL	ng/Kg	
SL-075-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.728	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.336	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.14	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.25	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.797	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.96	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	1.52	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.320	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.368	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.598	5.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.887	5.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0396	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.221	1.19	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: DX082\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.06	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.66	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.11	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.23	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.682	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.12	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.23	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.953	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.460	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.753	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.729	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.258	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.262	1.08	PQL	ng/Kg	
SL-079-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.65	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.77	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.83	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.45	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.47	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.37	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.55	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.992	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.433	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.16	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.684	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.188	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.325	1.10	PQL	ng/Kg	
SL-080-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.23	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.02	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.40	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	5.41	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.819	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.94	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.46	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.31	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.940	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.876	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.746	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.261	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.188	1.10	PQL	ng/Kg	
SL-081-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.761	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.00	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.900	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.03	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.610	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.53	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.04	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.541	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.267	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.663	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.660	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.233	1.05	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: DX082\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-082-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.722	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.63	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.07	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.18	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.565	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.20	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.16	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.935	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.327	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.556	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.478	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.143	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.306	1.10	PQL	ng/Kg	
SL-083-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.03	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	3.38	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.10	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.660	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.07	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.95	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.359	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.781	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.560	5.43	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.360	1.09	PQL	ng/Kg	
2,3,7,8-TCDF	JBQ	0.261	1.09	PQL	ng/Kg		
SL-084-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.909	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.68	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.29	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.892	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.00	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.72	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.520	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.761	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.896	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.383	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.285	1.07	PQL	ng/Kg	
SL-206-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.860	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	3.69	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.40	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.890	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.05	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.15	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.450	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.823	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.647	5.61	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.455	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.320	1.12	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX082

Laboratory: LL

EDD Filename: DX082\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-254-SA5A-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.36	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.230	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.281	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.642	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.707	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.221	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.767	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.276	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.199	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.148	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.332	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.651	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.217	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.219	1.02	PQL	ng/Kg	
	OCDF	JB	7.17	10.2	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX083**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-May-2011	SL-005-SA5DN-SB-4.0-5.0	6290814	N	METHOD	1613B	III
17-May-2011	SL-005-SA5DN-SB-9.0-10.0	6290815	N	METHOD	1613B	III
17-May-2011	SL-001-SA5DN-SB-9.0-10.0	6290813	N	METHOD	1613B	III
17-May-2011	SL-001-SA5DN-SB-5.5-6.5	6290812	N	METHOD	1613B	III
17-May-2011	SL-073-SA5DN-SB-4.0-5.0	6290818	N	METHOD	1613B	III
17-May-2011	SL-073-SA5DN-SB-9.0-10.0	6290819	N	METHOD	1613B	III
17-May-2011	SL-068-SA5DN-SB-4.0-5.0	6290816	N	METHOD	1613B	III
17-May-2011	SL-068-SA5DN-SB-9.0-10.0	6290817	N	METHOD	1613B	III
19-May-2011	SL-067-SA5DN-SB-4.0-5.0	6293439	N	METHOD	1613B	III
19-May-2011	SL-067-SA5DN-SB-9.0-10.0	6293440	N	METHOD	1613B	III
19-May-2011	SL-079-SA5DN-SB-4.0-5.0	6293441	N	METHOD	1613B	III
19-May-2011	SL-079-SA5DN-SB-9.0-10.0	6293442	N	METHOD	1613B	III
19-May-2011	EB03-SA5DN-SB-051911	6293447	EB	METHOD	1613B	III
19-May-2011	SL-080-SA5DN-SB-4.0-5.0	6293443	N	METHOD	1613B	III
19-May-2011	SL-080-SA5DN-SB-8.0-9.0	6293444	N	METHOD	1613B	III
19-May-2011	SL-082-SA5DN-SB-4.0-5.0	6293445	N	METHOD	1613B	III
19-May-2011	EB04-SA5DN-SS-051911	6293448	EB	METHOD	1613B	III
19-May-2011	SL-206-SA5DN-SB-4.0-5.0	6293446	N	METHOD	1613B	III
19-May-2011	SL-066-SA5DN-SB-4.0-5.0	6293437	N	METHOD	1613B	III
19-May-2011	SL-066-SA5DN-SB-9.0-10.0	6293438	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	AQ
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Sample ID: EB03-SA5DN-SB-051911

Collected: 5/19/2011 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.93	JB	0.232	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.835	JB	0.104	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.225	JB	0.112	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.262	JB	0.173	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDF	0.214	JBQ	0.162	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDD	0.213	JB	0.174	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.319	JBQ	0.152	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	0.181	JB	0.150	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.198	JBQ	0.120	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.504	JBQ	0.130	MDL	10.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.382	JB	0.107	MDL	10.2	PQL	pg/L	U	B
OCDD	3.12	JB	0.219	MDL	20.3	PQL	pg/L	U	B
OCDF	0.690	JBQ	0.262	MDL	20.3	PQL	pg/L	U	B

Sample ID: EB04-SA5DN-SS-051911

Collected: 5/19/2011 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.11	JBQ	0.211	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.806	JBQ	0.0998	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.254	JB	0.110	MDL	10.2	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDF	0.335	JBQ	0.161	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDD	0.357	JBQ	0.167	MDL	10.2	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.207	JBQ	0.153	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDD	0.274	JBQ	0.153	MDL	10.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.200	JBQ	0.131	MDL	10.2	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.487	JB	0.140	MDL	10.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.327	JBQ	0.123	MDL	10.2	PQL	pg/L	U	B
2,3,7,8-TCDD	0.273	JBQ	0.262	MDL	2.04	PQL	pg/L	U	B
OCDD	3.64	JBQ	0.200	MDL	20.4	PQL	pg/L	U	B
OCDF	0.985	JBQ	0.288	MDL	20.4	PQL	pg/L	U	B

\* denotes a non-reportable result

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

8/10/2011 1:39:56 PM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: SL-001-SA5DN-SB-5.5-6.5

Collected: 5/17/2011 12:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.631	JB	0.0338	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.140	JB	0.0129	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.103	JBQ	0.0184	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0823	JB	0.0238	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0678	JB	0.0210	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.174	JBQ	0.0251	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0750	JBQ	0.0182	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.319	JB	0.0230	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.430	JBQ	0.0211	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0994	JBQ	0.0209	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.116	JB	0.0113	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0773	JBQ	0.0171	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0914	JBQ	0.0110	MDL	5.82	PQL	ng/Kg	U	B
OCDD	3.10	JB	0.0368	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.270	JB	0.0385	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-001-SA5DN-SB-9.0-10.0

Collected: 5/17/2011 11:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.286	JB	0.0223	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.103	JBQ	0.00930	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0844	JBQ	0.0140	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0331	JB	0.0165	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0857	JB	0.0129	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0565	JB	0.0177	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0518	JBQ	0.0117	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0702	JBQ	0.0164	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0881	JBQ	0.0151	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0458	JB	0.0214	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0588	JB	0.00942	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0649	JBQ	0.0120	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0834	JBQ	0.00908	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0250	JBQ	0.0202	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0256	JBQ	0.0193	MDL	1.12	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

<b>Sample ID:</b> SL-001-SA5DN-SB-9.0-10.0	<b>Collected:</b> 5/17/2011 11:58:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.869	JB	0.0290	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.195	JBQ	0.0287	MDL	11.2	PQL	ng/Kg	U	B

<b>Sample ID:</b> SL-005-SA5DN-SB-4.0-5.0	<b>Collected:</b> 5/17/2011 10:04:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.311	JBQ	0.0267	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.115	JBQ	0.0115	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0578	JBQ	0.0179	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0429	JB	0.0164	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0667	JBQ	0.0148	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0599	JBQ	0.0170	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0508	JBQ	0.0132	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.105	JBQ	0.0161	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.130	JBQ	0.0152	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0502	JBQ	0.0205	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0591	JBQ	0.00980	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0670	JB	0.0133	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0934	JBQ	0.00980	MDL	5.78	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0367	JBQ	0.0216	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0305	JBQ	0.0202	MDL	1.16	PQL	ng/Kg	U	B
OCDD	0.733	JB	0.0266	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.216	JB	0.0301	MDL	11.6	PQL	ng/Kg	U	B

<b>Sample ID:</b> SL-005-SA5DN-SB-9.0-10.0	<b>Collected:</b> 5/17/2011 10:08:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.258	JBQ	0.0263	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.113	JB	0.0113	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0765	JB	0.0185	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0414	JBQ	0.0172	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0724	JBQ	0.0155	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0311	JBQ	0.0179	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0499	JBQ	0.0137	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0649	JBQ	0.0164	MDL	5.64	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: SL-005-SA5DN-SB-9.0-10.0      Collected: 5/17/2011 10:08:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0660	JBQ	0.0165	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0685	JBQ	0.0238	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0553	JBQ	0.0113	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0475	JBQ	0.0143	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0925	JB	0.0118	MDL	5.64	PQL	ng/Kg	U	B
OCDD	0.628	JB	0.0292	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.258	JBQ	0.0356	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-066-SA5DN-SB-4.0-5.0      Collected: 5/19/2011 2:39:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.386	JBQ	0.0233	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.131	JB	0.0112	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0747	JBQ	0.0145	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0469	JBQ	0.0197	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0545	JB	0.0175	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.151	JB	0.0203	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0560	JB	0.0158	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.211	JB	0.0182	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.243	JB	0.0150	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0660	JBQ	0.0221	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0723	JBQ	0.00905	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0705	JBQ	0.0131	MDL	5.58	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0803	JBQ	0.00905	MDL	5.58	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0312	JB	0.0179	MDL	1.12	PQL	ng/Kg	U	B
OCDD	1.22	JB	0.0263	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.210	JBQ	0.0329	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-066-SA5DN-SB-9.0-10.0      Collected: 5/19/2011 2:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.265	JB	0.0241	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.162	JBQ	0.00990	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0603	JBQ	0.0138	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0302	JBQ	0.0166	MDL	5.84	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA		
<b>Method:</b>	1613B	<b>Matrix:</b>	SO

Sample ID: SL-066-SA5DN-SB-9.0-10.0      Collected: 5/19/2011 2:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0597	JB	0.0113	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0511	JB	0.0168	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0623	JBQ	0.0104	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0534	JB	0.0156	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0691	JBQ	0.0124	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0319	JB	0.0189	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0311	JBQ	0.00931	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0725	JBQ	0.0107	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0760	JBQ	0.00859	MDL	5.84	PQL	ng/Kg	U	B
OCDD	0.651	JB	0.0296	MDL	11.7	PQL	ng/Kg	U	B
OCDF	0.213	JB	0.0289	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-067-SA5DN-SB-4.0-5.0      Collected: 5/19/2011 8:34:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.582	JB	0.0300	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.136	JBQ	0.0115	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0485	JB	0.0150	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0370	JB	0.0192	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0585	JBQ	0.0142	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.122	JBQ	0.0199	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0457	JBQ	0.0131	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.248	JB	0.0185	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.274	JBQ	0.0155	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0351	JB	0.0190	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0580	JBQ	0.0102	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0591	JB	0.0122	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0731	JBQ	0.00990	MDL	5.68	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0213	JBQ	0.0209	MDL	1.14	PQL	ng/Kg	U	B
OCDD	5.12	JB	0.0289	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.216	JB	0.0259	MDL	11.4	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category:	SVOA		
Method:	1613B	Matrix:	SO

Sample ID: SL-067-SA5DN-SB-9.0-10.0	Collected: 5/19/2011 8:40:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.45	JB	0.0554	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.488	JB	0.0209	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0794	JBQ	0.0311	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0622	JB	0.0262	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0572	JBQ	0.0230	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.174	JBQ	0.0278	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0578	JB	0.0210	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.161	JB	0.0251	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.116	JB	0.0249	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0435	JBQ	0.0301	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0371	JBQ	0.0155	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0833	JB	0.0210	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0914	JBQ	0.0152	MDL	5.78	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0422	JBQ	0.0308	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0325	JBQ	0.0287	MDL	1.16	PQL	ng/Kg	U	B
OCDF	1.09	JB	0.0485	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-068-SA5DN-SB-4.0-5.0	Collected: 5/17/2011 4:08:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.251	JB	0.0220	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.111	JB	0.00830	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0673	JB	0.0104	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0507	JB	0.0149	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0582	JBQ	0.00975	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0552	JBQ	0.0151	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0590	JB	0.00897	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.112	JBQ	0.0143	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0830	JBQ	0.0107	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0677	JBQ	0.0177	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0460	JBQ	0.00774	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0642	JBQ	0.00897	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0610	JBQ	0.00706	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0227	JBQ	0.0146	MDL	1.11	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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<b>Sample ID:</b> SL-068-SA5DN-SB-4.0-5.0	<b>Collected:</b> 5/17/2011 4:08:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0165	JBQ	0.0122	MDL	1.11	PQL	ng/Kg	U	B
OCDD	0.683	JBQ	0.0242	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.152	JB	0.0280	MDL	11.1	PQL	ng/Kg	U	B

<b>Sample ID:</b> SL-068-SA5DN-SB-9.0-10.0	<b>Collected:</b> 5/17/2011 4:11:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.240	JBQ	0.0221	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.152	JB	0.00855	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0774	JBQ	0.0139	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0978	JB	0.0157	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.159	JBQ	0.0158	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.104	JBQ	0.0164	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.147	JB	0.0144	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.114	JB	0.0158	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.143	JB	0.0181	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.188	JBQ	0.0207	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.224	JBQ	0.0106	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.124	JB	0.0149	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.217	JB	0.0106	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0470	JBQ	0.0188	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0365	JBQ	0.0179	MDL	1.13	PQL	ng/Kg	U	B
OCDD	0.477	JB	0.0247	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.169	JBQ	0.0262	MDL	11.3	PQL	ng/Kg	U	B

<b>Sample ID:</b> SL-073-SA5DN-SB-4.0-5.0	<b>Collected:</b> 5/17/2011 3:19:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.382	JB	0.0226	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.241	JB	0.0117	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.158	JB	0.0147	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.138	JB	0.0213	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.158	JBQ	0.0178	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.157	JB	0.0221	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.161	JBQ	0.0164	MDL	5.64	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA		
<b>Method:</b>	1613B	<b>Matrix:</b>	SO

Sample ID: SL-073-SA5DN-SB-4.0-5.0      Collected: 5/17/2011 3:19:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.200	JBQ	0.0208	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.221	JB	0.0173	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.211	JB	0.0200	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.159	JBQ	0.0102	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.165	JB	0.0164	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.167	JB	0.00973	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0375	JBQ	0.0163	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0433	JBQ	0.0141	MDL	1.13	PQL	ng/Kg	U	B
OCDD	0.850	JB	0.0245	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.334	JBQ	0.0267	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-073-SA5DN-SB-9.0-10.0      Collected: 5/17/2011 3:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.249	JB	0.0206	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.148	JB	0.00940	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0751	JB	0.0126	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0253	JBQ	0.0136	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0495	JB	0.0104	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0482	JBQ	0.0142	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0526	JBQ	0.00974	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0716	JBQ	0.0136	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0682	JB	0.0108	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0704	JBQ	0.0187	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0473	JB	0.00849	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0629	JBQ	0.00963	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0914	JB	0.00838	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0169	JBQ	0.0168	MDL	1.10	PQL	ng/Kg	U	B
OCDD	0.564	JBQ	0.0233	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.201	JB	0.0270	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-079-SA5DN-SB-4.0-5.0      Collected: 5/19/2011 9:34:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.951	JB	0.0388	MDL	5.61	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-079-SA5DN-SB-4.0-5.0      Collected: 5/19/2011 9:34:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.289	JB	0.0139	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0524	JB	0.0213	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0369	JB	0.0178	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0601	JBQ	0.0172	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.115	JB	0.0185	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0371	JBQ	0.0152	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.176	JB	0.0173	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.188	JB	0.0186	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0488	JBQ	0.0186	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0521	JBQ	0.00909	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0772	JB	0.0149	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0644	JBQ	0.00954	MDL	5.61	PQL	ng/Kg	U	B
OCDF	0.595	JB	0.0363	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-079-SA5DN-SB-9.0-10.0      Collected: 5/19/2011 9:39:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.539	JB	0.0361	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.168	JB	0.0116	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0380	JBQ	0.0154	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0616	JB	0.0199	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.117	JB	0.0161	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0742	JBQ	0.0207	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0889	JB	0.0139	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.101	JBQ	0.0190	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0698	JBQ	0.0162	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0854	JB	0.0238	MDL	5.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0890	JB	0.0118	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0864	JB	0.0132	MDL	5.95	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.132	JBQ	0.0114	MDL	5.95	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0376	JB	0.0210	MDL	1.19	PQL	ng/Kg	U	B
OCDD	6.37	JB	0.0264	MDL	11.9	PQL	ng/Kg	J	Z
OCDF	0.358	JB	0.0314	MDL	11.9	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: SL-080-SA5DN-SB-4.0-5.0

Collected: 5/19/2011 10:44:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.651	JB	0.0343	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.136	JBQ	0.0130	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0794	JB	0.0171	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0739	JBQ	0.0235	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.138	JB	0.0282	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.127	JBQ	0.0247	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.118	JBQ	0.0240	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.189	JBQ	0.0231	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.237	JB	0.0193	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.147	JBQ	0.0278	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.144	JB	0.0117	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.101	JBQ	0.0174	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.133	JBQ	0.0124	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0506	JBQ	0.0247	MDL	1.11	PQL	ng/Kg	U	B
OCDD	6.59	JB	0.0353	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.272	JBQ	0.0396	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-080-SA5DN-SB-8.0-9.0

Collected: 5/19/2011 10:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.335	JB	0.0265	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.102	JBQ	0.00862	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0336	JB	0.0129	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0336	JB	0.0186	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0339	JB	0.0147	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0623	JBQ	0.0190	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0523	JB	0.0122	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0437	JBQ	0.0178	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0522	JBQ	0.0148	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0573	JBQ	0.0246	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0363	JB	0.0106	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0512	JBQ	0.0112	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0551	JBQ	0.0109	MDL	5.44	PQL	ng/Kg	U	B
OCDD	2.76	JB	0.0394	MDL	10.9	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: SL-080-SA5DN-SB-8.0-9.0      Collected: 5/19/2011 10:49:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.174	JB	0.0375	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-082-SA5DN-SB-4.0-5.0      Collected: 5/19/2011 11:24:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.419	JBQ	0.0260	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.104	JBQ	0.00961	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0754	JBQ	0.0123	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0268	JB	0.0146	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0742	JB	0.0156	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0680	JB	0.0154	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0414	JBQ	0.0132	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0970	JBQ	0.0143	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0761	JB	0.0127	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0343	JBQ	0.00873	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0381	JB	0.00961	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0715	JB	0.00862	MDL	5.38	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0265	JBQ	0.0213	MDL	1.08	PQL	ng/Kg	U	B
OCDD	3.19	JB	0.0241	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.245	JBQ	0.0258	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-206-SA5DN-SB-4.0-5.0      Collected: 5/19/2011 2:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.531	JB	0.0271	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.112	JBQ	0.00838	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0567	JBQ	0.0123	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0348	JBQ	0.0153	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0726	JBQ	0.0134	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0679	JBQ	0.0163	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0533	JBQ	0.0111	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0915	JBQ	0.0148	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0812	JB	0.0123	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0505	JBQ	0.0195	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0304	JBQ	0.00953	MDL	5.72	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-206-SA5DN-SB-4.0-5.0

Collected: 5/19/2011 2:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0455	JBQ	0.00987	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0811	JB	0.00987	MDL	5.72	PQL	ng/Kg	U	B
OCDD	6.22	JB	0.0248	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.269	JB	0.0257	MDL	11.4	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

# Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

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

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## **Enclosure I**

### **EPA Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DX083

# Method Blank Outlier Report

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1400B370746	5/25/2011 7:46:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	2.50 pg/L 1.49 pg/L 0.992 pg/L 0.648 pg/L 0.579 pg/L 0.598 pg/L 0.716 pg/L 0.427 pg/L 1.14 pg/L 1.03 pg/L 0.573 pg/L 0.697 pg/L 0.830 pg/L 0.410 pg/L 6.14 pg/L 3.26 pg/L	EB03-SA5DN-SB-051911 EB04-SA5DN-SS-051911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB03-SA5DN-SB-051911(RES)	1,2,3,4,6,7,8-HPCDD	1.93 pg/L	1.93U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,4,6,7,8-HPCDF	0.835 pg/L	0.835U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,4,7,8,9-HPCDF	0.225 pg/L	0.225U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,4,7,8-HxCDD	0.262 pg/L	0.262U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,4,7,8-HXCDF	0.214 pg/L	0.214U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,6,7,8-HxCDD	0.213 pg/L	0.213U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,6,7,8-HXCDF	0.319 pg/L	0.319U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,7,8,9-HXCDF	0.181 pg/L	0.181U pg/L
EB03-SA5DN-SB-051911(RES)	1,2,3,7,8-PECDF	0.198 pg/L	0.198U pg/L
EB03-SA5DN-SB-051911(RES)	2,3,4,6,7,8-HXCDF	0.504 pg/L	0.504U pg/L
EB03-SA5DN-SB-051911(RES)	2,3,4,7,8-PECDF	0.382 pg/L	0.382U pg/L
EB03-SA5DN-SB-051911(RES)	OCDD	3.12 pg/L	3.12U pg/L
EB03-SA5DN-SB-051911(RES)	OCDF	0.690 pg/L	0.690U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,4,6,7,8-HPCDD	2.11 pg/L	2.11U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,4,6,7,8-HPCDF	0.806 pg/L	0.806U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,4,7,8,9-HPCDF	0.254 pg/L	0.254U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,4,7,8-HXCDF	0.335 pg/L	0.335U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,6,7,8-HxCDD	0.357 pg/L	0.357U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,6,7,8-HXCDF	0.207 pg/L	0.207U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,7,8,9-HxCDD	0.274 pg/L	0.274U pg/L
EB04-SA5DN-SS-051911(RES)	1,2,3,7,8-PECDF	0.200 pg/L	0.200U pg/L
EB04-SA5DN-SS-051911(RES)	2,3,4,6,7,8-HXCDF	0.487 pg/L	0.487U pg/L
EB04-SA5DN-SS-051911(RES)	2,3,4,7,8-PECDF	0.327 pg/L	0.327U pg/L
EB04-SA5DN-SS-051911(RES)	2,3,7,8-TCDD	0.273 pg/L	0.273U pg/L
EB04-SA5DN-SS-051911(RES)	OCDD	3.64 pg/L	3.64U pg/L
EB04-SA5DN-SS-051911(RES)	OCDF	0.985 pg/L	0.985U pg/L

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1510B371538	6/3/2011 3:38:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD 2,3,7,8-TCDF OCDD OCDF	0.286 ng/Kg 0.161 ng/Kg 0.174 ng/Kg 0.107 ng/Kg 0.144 ng/Kg 0.114 ng/Kg 0.124 ng/Kg 0.149 ng/Kg 0.206 ng/Kg 0.125 ng/Kg 0.132 ng/Kg 0.134 ng/Kg 0.151 ng/Kg 0.0427 ng/Kg 0.0225 ng/Kg 0.448 ng/Kg 0.332 ng/Kg	SL-001-SA5DN-SB-5.5-6.5 SL-001-SA5DN-SB-9.0-10.0 SL-005-SA5DN-SB-4.0-5.0 SL-005-SA5DN-SB-9.0-10.0 SL-066-SA5DN-SB-4.0-5.0 SL-066-SA5DN-SB-9.0-10.0 SL-067-SA5DN-SB-4.0-5.0 SL-067-SA5DN-SB-9.0-10.0 SL-068-SA5DN-SB-4.0-5.0 SL-068-SA5DN-SB-9.0-10.0 SL-073-SA5DN-SB-4.0-5.0 SL-073-SA5DN-SB-9.0-10.0 SL-079-SA5DN-SB-4.0-5.0 SL-079-SA5DN-SB-9.0-10.0 SL-080-SA5DN-SB-4.0-5.0 SL-080-SA5DN-SB-8.0-9.0 SL-082-SA5DN-SB-4.0-5.0 SL-206-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,4,6,7,8-HPCDD	0.631 ng/Kg	0.631U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,4,6,7,8-HPCDF	0.140 ng/Kg	0.140U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,4,7,8,9-HPCDF	0.103 ng/Kg	0.103U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,4,7,8-HxCDD	0.0823 ng/Kg	0.0823U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,4,7,8-HxCDF	0.0678 ng/Kg	0.0678U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,6,7,8-HxCDD	0.174 ng/Kg	0.174U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,6,7,8-HxCDF	0.0750 ng/Kg	0.0750U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,7,8,9-HxCDD	0.319 ng/Kg	0.319U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,7,8,9-HxCDF	0.430 ng/Kg	0.430U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,7,8-PECDD	0.0994 ng/Kg	0.0994U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	1,2,3,7,8-PECDF	0.116 ng/Kg	0.116U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	2,3,4,6,7,8-HxCDF	0.0773 ng/Kg	0.0773U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	2,3,4,7,8-PECDF	0.0914 ng/Kg	0.0914U ng/Kg
SL-001-SA5DN-SB-5.5-6.5(RES)	OCDF	0.270 ng/Kg	0.270U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.286 ng/Kg	0.286U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.103 ng/Kg	0.103U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0844 ng/Kg	0.0844U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0331 ng/Kg	0.0331U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0857 ng/Kg	0.0857U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0565 ng/Kg	0.0565U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0518 ng/Kg	0.0518U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0702 ng/Kg	0.0702U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0881 ng/Kg	0.0881U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0458 ng/Kg	0.0458U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0588 ng/Kg	0.0588U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-001-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0834 ng/Kg	0.0834U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0250 ng/Kg	0.0250U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0256 ng/Kg	0.0256U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	OCDD	0.869 ng/Kg	0.869U ng/Kg
SL-001-SA5DN-SB-9.0-10.0(RES)	OCDF	0.195 ng/Kg	0.195U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.311 ng/Kg	0.311U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0578 ng/Kg	0.0578U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0429 ng/Kg	0.0429U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0599 ng/Kg	0.0599U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0508 ng/Kg	0.0508U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.105 ng/Kg	0.105U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0502 ng/Kg	0.0502U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0591 ng/Kg	0.0591U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0670 ng/Kg	0.0670U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0934 ng/Kg	0.0934U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0367 ng/Kg	0.0367U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0305 ng/Kg	0.0305U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	OCDD	0.733 ng/Kg	0.733U ng/Kg
SL-005-SA5DN-SB-4.0-5.0(RES)	OCDF	0.216 ng/Kg	0.216U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.258 ng/Kg	0.258U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0765 ng/Kg	0.0765U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0414 ng/Kg	0.0414U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0724 ng/Kg	0.0724U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0311 ng/Kg	0.0311U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0499 ng/Kg	0.0499U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0649 ng/Kg	0.0649U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0660 ng/Kg	0.0660U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0685 ng/Kg	0.0685U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0475 ng/Kg	0.0475U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0925 ng/Kg	0.0925U ng/Kg
SL-005-SA5DN-SB-9.0-10.0(RES)	OCDD	0.628 ng/Kg	0.628U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-005-SA5DN-SB-9.0-10.0(RES)	OCDF	0.258 ng/Kg	0.258U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.386 ng/Kg	0.386U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.131 ng/Kg	0.131U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0747 ng/Kg	0.0747U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0469 ng/Kg	0.0469U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0545 ng/Kg	0.0545U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.151 ng/Kg	0.151U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0560 ng/Kg	0.0560U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.211 ng/Kg	0.211U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.243 ng/Kg	0.243U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0660 ng/Kg	0.0660U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0723 ng/Kg	0.0723U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0705 ng/Kg	0.0705U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0803 ng/Kg	0.0803U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0312 ng/Kg	0.0312U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	OCDD	1.22 ng/Kg	1.22U ng/Kg
SL-066-SA5DN-SB-4.0-5.0(RES)	OCDF	0.210 ng/Kg	0.210U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.265 ng/Kg	0.265U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.162 ng/Kg	0.162U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0603 ng/Kg	0.0603U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0302 ng/Kg	0.0302U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0511 ng/Kg	0.0511U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0623 ng/Kg	0.0623U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0534 ng/Kg	0.0534U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0691 ng/Kg	0.0691U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0319 ng/Kg	0.0319U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0760 ng/Kg	0.0760U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	OCDD	0.651 ng/Kg	0.651U ng/Kg
SL-066-SA5DN-SB-9.0-10.0(RES)	OCDF	0.213 ng/Kg	0.213U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.582 ng/Kg	0.582U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0370 ng/Kg	0.0370U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0585 ng/Kg	0.0585U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0457 ng/Kg	0.0457U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.248 ng/Kg	0.248U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.274 ng/Kg	0.274U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0591 ng/Kg	0.0591U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0731 ng/Kg	0.0731U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0213 ng/Kg	0.0213U ng/Kg
SL-067-SA5DN-SB-4.0-5.0(RES)	OCDF	0.216 ng/Kg	0.216U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.488 ng/Kg	0.488U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0794 ng/Kg	0.0794U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0622 ng/Kg	0.0622U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0572 ng/Kg	0.0572U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.174 ng/Kg	0.174U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0578 ng/Kg	0.0578U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.161 ng/Kg	0.161U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0435 ng/Kg	0.0435U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0371 ng/Kg	0.0371U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0914 ng/Kg	0.0914U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0422 ng/Kg	0.0422U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0325 ng/Kg	0.0325U ng/Kg
SL-067-SA5DN-SB-9.0-10.0(RES)	OCDF	1.09 ng/Kg	1.09U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.251 ng/Kg	0.251U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0507 ng/Kg	0.0507U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0552 ng/Kg	0.0552U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0590 ng/Kg	0.0590U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.112 ng/Kg	0.112U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0677 ng/Kg	0.0677U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0642 ng/Kg	0.0642U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-068-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0227 ng/Kg	0.0227U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0165 ng/Kg	0.0165U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	OCDD	0.683 ng/Kg	0.683U ng/Kg
SL-068-SA5DN-SB-4.0-5.0(RES)	OCDF	0.152 ng/Kg	0.152U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.240 ng/Kg	0.240U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.152 ng/Kg	0.152U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0774 ng/Kg	0.0774U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0978 ng/Kg	0.0978U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.159 ng/Kg	0.159U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.104 ng/Kg	0.104U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.114 ng/Kg	0.114U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.188 ng/Kg	0.188U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.217 ng/Kg	0.217U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0470 ng/Kg	0.0470U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0365 ng/Kg	0.0365U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	OCDD	0.477 ng/Kg	0.477U ng/Kg
SL-068-SA5DN-SB-9.0-10.0(RES)	OCDF	0.169 ng/Kg	0.169U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.382 ng/Kg	0.382U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.241 ng/Kg	0.241U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.158 ng/Kg	0.158U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.138 ng/Kg	0.138U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.158 ng/Kg	0.158U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.157 ng/Kg	0.157U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.161 ng/Kg	0.161U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.200 ng/Kg	0.200U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.211 ng/Kg	0.211U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.159 ng/Kg	0.159U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.167 ng/Kg	0.167U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0375 ng/Kg	0.0375U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0433 ng/Kg	0.0433U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-073-SA5DN-SB-4.0-5.0(RES)	OCDD	0.850 ng/Kg	0.850U ng/Kg
SL-073-SA5DN-SB-4.0-5.0(RES)	OCDF	0.334 ng/Kg	0.334U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.249 ng/Kg	0.249U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.148 ng/Kg	0.148U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0751 ng/Kg	0.0751U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0253 ng/Kg	0.0253U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0482 ng/Kg	0.0482U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0716 ng/Kg	0.0716U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0704 ng/Kg	0.0704U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0473 ng/Kg	0.0473U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0629 ng/Kg	0.0629U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0914 ng/Kg	0.0914U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0169 ng/Kg	0.0169U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	OCDD	0.564 ng/Kg	0.564U ng/Kg
SL-073-SA5DN-SB-9.0-10.0(RES)	OCDF	0.201 ng/Kg	0.201U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.951 ng/Kg	0.951U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.289 ng/Kg	0.289U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0369 ng/Kg	0.0369U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0601 ng/Kg	0.0601U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.115 ng/Kg	0.115U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0371 ng/Kg	0.0371U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.176 ng/Kg	0.176U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.188 ng/Kg	0.188U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0488 ng/Kg	0.0488U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0772 ng/Kg	0.0772U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0644 ng/Kg	0.0644U ng/Kg
SL-079-SA5DN-SB-4.0-5.0(RES)	OCDF	0.595 ng/Kg	0.595U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.539 ng/Kg	0.539U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0380 ng/Kg	0.0380U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0616 ng/Kg	0.0616U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.117 ng/Kg	0.117U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0742 ng/Kg	0.0742U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0889 ng/Kg	0.0889U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.101 ng/Kg	0.101U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0698 ng/Kg	0.0698U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0854 ng/Kg	0.0854U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0890 ng/Kg	0.0890U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0864 ng/Kg	0.0864U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.132 ng/Kg	0.132U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0376 ng/Kg	0.0376U ng/Kg
SL-079-SA5DN-SB-9.0-10.0(RES)	OCDF	0.358 ng/Kg	0.358U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.651 ng/Kg	0.651U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0794 ng/Kg	0.0794U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0739 ng/Kg	0.0739U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.138 ng/Kg	0.138U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.127 ng/Kg	0.127U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.189 ng/Kg	0.189U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.237 ng/Kg	0.237U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.147 ng/Kg	0.147U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.144 ng/Kg	0.144U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0506 ng/Kg	0.0506U ng/Kg
SL-080-SA5DN-SB-4.0-5.0(RES)	OCDF	0.272 ng/Kg	0.272U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDD	0.335 ng/Kg	0.335U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,6,7,8-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HxCDD	0.0336 ng/Kg	0.0336U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,4,7,8-HXCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDD	0.0623 ng/Kg	0.0623U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,6,7,8-HXCDF	0.0523 ng/Kg	0.0523U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDD	0.0437 ng/Kg	0.0437U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8,9-HXCDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDD	0.0573 ng/Kg	0.0573U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	1,2,3,7,8-PECDF	0.0363 ng/Kg	0.0363U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	2,3,4,6,7,8-HXCDF	0.0512 ng/Kg	0.0512U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-080-SA5DN-SB-8.0-9.0(RES)	2,3,4,7,8-PECDF	0.0551 ng/Kg	0.0551U ng/Kg
SL-080-SA5DN-SB-8.0-9.0(RES)	OCDF	0.174 ng/Kg	0.174U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.419 ng/Kg	0.419U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0754 ng/Kg	0.0754U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0268 ng/Kg	0.0268U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0742 ng/Kg	0.0742U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0680 ng/Kg	0.0680U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0970 ng/Kg	0.0970U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0761 ng/Kg	0.0761U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0343 ng/Kg	0.0343U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0715 ng/Kg	0.0715U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0265 ng/Kg	0.0265U ng/Kg
SL-082-SA5DN-SB-4.0-5.0(RES)	OCDF	0.245 ng/Kg	0.245U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.531 ng/Kg	0.531U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.112 ng/Kg	0.112U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0567 ng/Kg	0.0567U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0348 ng/Kg	0.0348U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0726 ng/Kg	0.0726U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0679 ng/Kg	0.0679U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0915 ng/Kg	0.0915U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0505 ng/Kg	0.0505U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0304 ng/Kg	0.0304U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-206-SA5DN-SB-4.0-5.0(RES)	OCDF	0.269 ng/Kg	0.269U ng/Kg

# Reporting Limit Outliers

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB03-SA5DN-SB-051911	1,2,3,4,6,7,8-HPCDD	JB	1.93	10.2	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.835	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.225	10.2	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JB	0.262	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.214	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.213	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.319	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.181	10.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.198	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.504	10.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.382	10.2	PQL	pg/L	
	OCDD	JB	3.12	20.3	PQL	pg/L	
	OCDF	JBQ	0.690	20.3	PQL	pg/L	
EB04-SA5DN-SS-051911	1,2,3,4,6,7,8-HPCDD	JBQ	2.11	10.2	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.806	10.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.254	10.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.335	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.357	10.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.207	10.2	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.274	10.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.200	10.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.487	10.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.327	10.2	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.273	2.04	PQL	pg/L	
	OCDD	JBQ	3.64	20.4	PQL	pg/L	
	OCDF	JBQ	0.985	20.4	PQL	pg/L	

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA5DN-SB-5.5-6.5	1,2,3,4,6,7,8-HPCDD	JB	0.631	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.140	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.103	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0823	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0678	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.174	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0750	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.319	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.430	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0994	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.116	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0773	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0914	5.82	PQL	ng/Kg	
	OCDD	JB	3.10	11.6	PQL	ng/Kg	
	OCDF	JB	0.270	11.6	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.286	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.103	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0844	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0331	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0857	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0565	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0518	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0702	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0881	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0458	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0588	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0649	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0834	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0250	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0256	1.12	PQL	ng/Kg	
	OCDD	JB	0.869	11.2	PQL	ng/Kg	
OCDF	JBQ	0.195	11.2	PQL	ng/Kg		
SL-005-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.311	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.115	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0578	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0429	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0667	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0599	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0508	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.105	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.130	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0502	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0591	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0670	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0934	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0367	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0305	1.16	PQL	ng/Kg	
	OCDD	JB	0.733	11.6	PQL	ng/Kg	
OCDF	JB	0.216	11.6	PQL	ng/Kg		
SL-005-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.258	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.113	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0765	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0414	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0724	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0311	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0499	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0649	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0660	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0685	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0553	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0475	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0925	5.64	PQL	ng/Kg	
	OCDD	JB	0.628	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.258	11.3	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-066-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.386	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.131	5.58	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0747	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0469	5.58	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0545	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.151	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0560	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.211	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.243	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0660	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0723	5.58	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0705	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0803	5.58	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0312	1.12	PQL	ng/Kg	
	OCDD	JB	1.22	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.210	11.2	PQL	ng/Kg	
SL-066-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.265	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.162	5.84	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0603	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0302	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0597	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0511	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0623	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0534	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0691	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0319	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0311	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0725	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0760	5.84	PQL	ng/Kg	
	OCDD	JB	0.651	11.7	PQL	ng/Kg	
	OCDF	JB	0.213	11.7	PQL	ng/Kg	
	SL-067-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.582	5.68	PQL	
1,2,3,4,6,7,8-HPCDF		JBQ	0.136	5.68	PQL	ng/Kg	
1,2,3,4,7,8,9-HPCDF		JB	0.0485	5.68	PQL	ng/Kg	
1,2,3,4,7,8-HxCDD		JB	0.0370	5.68	PQL	ng/Kg	
1,2,3,4,7,8-HxCDF		JBQ	0.0585	5.68	PQL	ng/Kg	
1,2,3,6,7,8-HxCDD		JBQ	0.122	5.68	PQL	ng/Kg	
1,2,3,6,7,8-HxCDF		JBQ	0.0457	5.68	PQL	ng/Kg	
1,2,3,7,8,9-HxCDD		JB	0.248	5.68	PQL	ng/Kg	
1,2,3,7,8,9-HxCDF		JBQ	0.274	5.68	PQL	ng/Kg	
1,2,3,7,8-PECDD		JB	0.0351	5.68	PQL	ng/Kg	
1,2,3,7,8-PECDF		JBQ	0.0580	5.68	PQL	ng/Kg	
2,3,4,6,7,8-HxCDF		JB	0.0591	5.68	PQL	ng/Kg	
2,3,4,7,8-PECDF		JBQ	0.0731	5.68	PQL	ng/Kg	
2,3,7,8-TCDD		JBQ	0.0213	1.14	PQL	ng/Kg	
OCDD		JB	5.12	11.4	PQL	ng/Kg	
OCDF		JB	0.216	11.4	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-067-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	3.45	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.488	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0794	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0622	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0572	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.174	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0578	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.161	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.116	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0435	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0371	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0833	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0914	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0422	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0325	1.16	PQL	ng/Kg	
OCDF	JB	1.09	11.6	PQL	ng/Kg		
SL-068-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.251	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.111	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0673	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0507	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0582	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0552	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0590	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.112	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0830	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0677	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0460	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0642	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0610	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0227	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0165	1.11	PQL	ng/Kg	
OCDD	JBQ	0.683	11.1	PQL	ng/Kg		
OCDF	JB	0.152	11.1	PQL	ng/Kg		
SL-068-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.240	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.152	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0774	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0978	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.159	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.104	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.147	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.114	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.143	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.188	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.224	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.124	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.217	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0470	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0365	1.13	PQL	ng/Kg	
OCDD	JB	0.477	11.3	PQL	ng/Kg		
OCDF	JBQ	0.169	11.3	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-073-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.382	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.241	5.64	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.158	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.138	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.158	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.157	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.161	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.200	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.221	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.211	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.159	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.165	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.167	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0375	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0433	1.13	PQL	ng/Kg	
OCDD	JB	0.850	11.3	PQL	ng/Kg		
OCDF	JBQ	0.334	11.3	PQL	ng/Kg		
SL-073-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.249	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.148	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0751	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0253	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0495	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0482	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0526	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0716	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.0682	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0704	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0473	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0629	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0914	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0169	1.10	PQL	ng/Kg	
	OCDD	JBQ	0.564	11.0	PQL	ng/Kg	
OCDF	JB	0.201	11.0	PQL	ng/Kg		
SL-079-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.951	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.289	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0524	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0369	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0601	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.115	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0371	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.176	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.188	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0488	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0521	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0772	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0644	5.61	PQL	ng/Kg	
	OCDF	JB	0.595	11.2	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-079-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.539	5.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.168	5.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0380	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0616	5.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.117	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0742	5.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0889	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.101	5.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0698	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0854	5.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0890	5.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0864	5.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.132	5.95	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0376	1.19	PQL	ng/Kg	
	OCDD	JB	6.37	11.9	PQL	ng/Kg	
OCDF	JB	0.358	11.9	PQL	ng/Kg		
SL-080-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.651	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.136	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0794	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0739	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.138	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.127	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.118	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.189	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.237	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.147	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.144	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.101	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.133	5.57	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0506	1.11	PQL	ng/Kg	
	OCDD	JB	6.59	11.1	PQL	ng/Kg	
OCDF	JBQ	0.272	11.1	PQL	ng/Kg		
SL-080-SA5DN-SB-8.0-9.0	1,2,3,4,6,7,8-HPCDD	JB	0.335	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.102	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0336	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0336	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0339	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0623	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0523	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0437	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0522	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0573	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0363	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0512	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0551	5.44	PQL	ng/Kg	
	OCDD	JB	2.76	10.9	PQL	ng/Kg	
	OCDF	JB	0.174	10.9	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX083

Laboratory: LL

EDD Filename: DX083\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-082-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.419	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.104	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0754	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0268	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0742	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0680	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0414	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0970	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0761	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0343	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0381	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0715	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0265	1.08	PQL	ng/Kg	
	OCDD	JB	3.19	10.8	PQL	ng/Kg	
OCDF	JBQ	0.245	10.8	PQL	ng/Kg		
SL-206-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.531	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.112	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0567	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0348	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0726	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0679	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0533	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0915	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0812	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0505	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0304	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0455	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0811	5.72	PQL	ng/Kg	
	OCDD	JB	6.22	11.4	PQL	ng/Kg	
OCDF	JB	0.269	11.4	PQL	ng/Kg		

# **SAMPLE DELIVERY GROUP**

**DX084**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-May-2011	SL-090-SA5DN-SS-0.0-0.5	6292027	N	METHOD	1613B	III
18-May-2011	SL-089-SA5DN-SS-0.0-0.5	6292024	N	METHOD	1613B	III
18-May-2011	SL-089-SA5DN-SS-0.0-0.5MS	6292025	MS	METHOD	1613B	III
18-May-2011	SL-089-SA5DN-SS-0.0-0.5MSD	6292026	MSD	METHOD	1613B	III
18-May-2011	DUP-02-SA5DN-QC-051811	6292029	FD	METHOD	1613B	III
18-May-2011	SL-087-SA5DN-SS-0.0-0.5	6292022	N	METHOD	1613B	III
18-May-2011	SL-086-SA5DN-SS-0.0-0.5	6292021	N	METHOD	1613B	III
18-May-2011	SL-088-SA5DN-SS-0.0-0.5	6292023	N	METHOD	1613B	III
18-May-2011	SL-064-SA5DN-SS-0.0-0.5	6292019	N	METHOD	1613B	III
18-May-2011	SL-065-SA5DN-SS-0.0-0.5	6292020	N	METHOD	1613B	III
18-May-2011	SL-202-SA5DN-SS-0.0-0.5	6292028	N	METHOD	1613B	III
18-May-2011	SL-054-SA5DN-SS-0.0-0.5	6292014	N	METHOD	1613B	III
18-May-2011	SL-059-SA5DN-SS-0.0-0.5	6292018	N	METHOD	1613B	III
18-May-2011	SL-055-SA5DN-SS-0.0-0.5	6292015	N	METHOD	1613B	III
18-May-2011	SL-056-SA5DN-SS-0.0-0.5	6292016	N	METHOD	1613B	III
18-May-2011	SL-058-SA5DN-SS-0.0-0.5	6292017	N	METHOD	1613B	III
19-May-2011	SL-032-SA5DN-SS-0.0-0.5	6293473	N	METHOD	1613B	III
19-May-2011	SL-033-SA5DN-SS-0.0-0.5	6293474	N	METHOD	1613B	III
19-May-2011	SL-035-SA5DN-SS-0.0-0.5	6293476	N	METHOD	1613B	III
19-May-2011	SL-034-SA5DN-SS-0.0-0.5	6293475	N	METHOD	1613B	III
19-May-2011	SL-031-SA5DN-SS-0.0-0.5	6293472	N	METHOD	1613B	III
19-May-2011	SL-030-SA5DN-SS-0.0-0.5	6293471	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: DUP-02-SA5DN-QC-051811      Collected: 5/18/2011 9:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.32	JB	0.0589	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.87	JB	0.0402	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.37	JB	0.0321	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.27	JB	0.0395	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.651	JB	0.0161	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.87	JB	0.0314	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.644	JB	0.0169	MDL	5.71	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.967	JB	0.0282	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.109	JBQ	0.0265	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	21100	EB	0.240	MDL	11.4	PQL	ng/Kg	J	*XI

Sample ID: SL-030-SA5DN-SS-0.0-0.5      Collected: 5/19/2011 3:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.64	JB	0.0285	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.213	JB	0.0387	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.273	JB	0.0461	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.592	JBQ	0.0391	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.784	JB	0.0476	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.322	JB	0.0332	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.659	JB	0.0425	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.432	JB	0.0306	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.309	JBQ	0.0338	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.283	JBQ	0.0278	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.287	JBQ	0.0287	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.388	JB	0.0299	MDL	5.74	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0662	JQ	0.0266	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.120	JB	0.0468	MDL	1.15	PQL	ng/Kg	U	B
OCDF	3.61	JB	0.0440	MDL	11.5	PQL	ng/Kg	J	Z

Sample ID: SL-031-SA5DN-SS-0.0-0.5      Collected: 5/19/2011 2:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.26	JB	0.0376	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.314	JB	0.0127	MDL	5.78	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-031-SA5DN-SS-0.0-0.5

Collected: 5/19/2011 2:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0416	JBQ	0.0228	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0799	JB	0.0267	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0524	JB	0.0213	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.212	JBQ	0.0285	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0616	JB	0.0174	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.202	JBQ	0.0279	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.122	JB	0.0254	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0773	JBQ	0.0259	MDL	5.78	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0611	JBQ	0.0184	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0882	JB	0.0192	MDL	5.78	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0964	JB	0.0192	MDL	5.78	PQL	ng/Kg	U	B
OCDF	0.814	JB	0.0491	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-032-SA5DN-SS-0.0-0.5

Collected: 5/19/2011 12:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.21	JB	0.0126	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.205	JB	0.0181	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.130	JBQ	0.0215	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.582	JB	0.0206	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.576	JB	0.0229	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.158	JBQ	0.0189	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.579	JB	0.0223	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.356	JB	0.0237	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.125	JB	0.0237	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.356	JB	0.0265	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.147	JBQ	0.0187	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.876	JB	0.0274	MDL	5.55	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0243	JBQ	0.0242	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.984	JB	0.103	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	3.06	JB	0.0235	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-033-SA5DN-SS-0.0-0.5	Collected: 5/19/2011 1:20:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.82	JB	0.0294	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.104	JBQ	0.0260	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.145	JBQ	0.0463	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.293	JBQ	0.0643	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.504	JB	0.0468	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.273	JBQ	0.0502	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.553	JBQ	0.0432	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.423	JB	0.0277	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.154	JBQ	0.0325	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0945	JBQ	0.0226	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.377	JBQ	0.0225	MDL	5.82	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.155	JBQ	0.0239	MDL	5.82	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0495	JQ	0.0228	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0515	JBQ	0.0339	MDL	1.16	PQL	ng/Kg	U	B
OCDF	2.14	JB	0.0416	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-034-SA5DN-SS-0.0-0.5	Collected: 5/19/2011 2:14:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.85	JBQ	0.153	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.428	JBQ	0.165	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.267	JBQ	0.174	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.287	JBQ	0.210	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.622	JBQ	0.178	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.517	JBQ	0.186	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.524	JB	0.187	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.371	JBQ	0.165	MDL	5.47	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.447	JB	0.124	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.491	JBQ	0.143	MDL	5.47	PQL	ng/Kg	J	Z
OCDF	3.78	JB	0.236	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-035-SA5DN-SS-0.0-0.5	Collected: 5/19/2011 1:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.86	JB	0.0516	MDL	5.62	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-035-SA5DN-SS-0.0-0.5      Collected: 5/19/2011 1:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.392	JBQ	0.0202	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0450	JBQ	0.0298	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0708	JBQ	0.0430	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.173	JBQ	0.0427	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.445	JB	0.0424	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.554	JBQ	0.0396	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.751	JBQ	0.0313	MDL	5.62	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.116	JBQ	0.0385	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.163	JB	0.0299	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.109	JB	0.0228	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.101	JB	0.0294	MDL	5.62	PQL	ng/Kg	U	B
OCDF	0.750	JBQ	0.0611	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-054-SA5DN-SS-0.0-0.5      Collected: 5/18/2011 1:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.59	JB	0.0263	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.190	JBQ	0.0293	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.292	JB	0.0461	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.859	JB	0.0494	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.10	JB	0.0459	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.244	JB	0.0436	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.871	JB	0.0447	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.556	JB	0.0377	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.194	JBQ	0.0384	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.184	JBQ	0.0381	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.242	JB	0.0368	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.345	JBQ	0.0364	MDL	5.50	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.276	JBQ	0.0667	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	7.93	JB	0.0320	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-055-SA5DN-SS-0.0-0.5      Collected: 5/18/2011 2:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.01	JB	0.0564	MDL	5.69	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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<b>Analyte</b>	<b>Lab Result</b>	<b>Lab Qual</b>	<b>DL</b>	<b>DL Type</b>	<b>RL</b>	<b>RL Type</b>	<b>Units</b>	<b>Data Review Qual</b>	<b>Reason Code</b>	
Sample ID: SL-055-SA5DN-SS-0.0-0.5	Collected: 5/18/2011 2:30:00		Analysis Type: RES				Dilution: 1			
1,2,3,4,7,8,9-HPCDF	0.278	JBQ	0.0571	MDL	5.69	PQL	ng/Kg	U	B	
1,2,3,4,7,8-HxCDD	0.183	JBQ	0.103	MDL	5.69	PQL	ng/Kg	U	B	
1,2,3,4,7,8-HXCDF	0.874	JB	0.0771	MDL	5.69	PQL	ng/Kg	J	Z	
1,2,3,6,7,8-HxCDD	1.46	JB	0.0997	MDL	5.69	PQL	ng/Kg	J	Z	
1,2,3,6,7,8-HXCDF	0.900	JB	0.0679	MDL	5.69	PQL	ng/Kg	J	Z	
1,2,3,7,8,9-HxCDD	0.733	JBQ	0.102	MDL	5.69	PQL	ng/Kg	J	Z	
1,2,3,7,8,9-HXCDF	0.400	JBQ	0.0634	MDL	5.69	PQL	ng/Kg	J	Z	
1,2,3,7,8-PECDD	0.240	JBQ	0.0662	MDL	5.69	PQL	ng/Kg	U	B	
1,2,3,7,8-PECDF	0.390	JBQ	0.0615	MDL	5.69	PQL	ng/Kg	J	Z	
2,3,4,6,7,8-HXCDF	0.438	JB	0.0556	MDL	5.69	PQL	ng/Kg	J	Z	
2,3,4,7,8-PECDF	0.806	JB	0.0618	MDL	5.69	PQL	ng/Kg	J	Z	
OCDF	5.20	JB	0.0646	MDL	11.4	PQL	ng/Kg	J	Z	

<b>Analyte</b>	<b>Lab Result</b>	<b>Lab Qual</b>	<b>DL</b>	<b>DL Type</b>	<b>RL</b>	<b>RL Type</b>	<b>Units</b>	<b>Data Review Qual</b>	<b>Reason Code</b>	
Sample ID: SL-056-SA5DN-SS-0.0-0.5	Collected: 5/18/2011 2:53:00		Analysis Type: RES				Dilution: 1			
1,2,3,4,6,7,8-HPCDD	4.70	JB	0.0419	MDL	5.62	PQL	ng/Kg	J	Z	
1,2,3,4,6,7,8-HPCDF	0.856	JB	0.0220	MDL	5.62	PQL	ng/Kg	J	Z	
1,2,3,4,7,8,9-HPCDF	0.0639	JBQ	0.0247	MDL	5.62	PQL	ng/Kg	U	B	
1,2,3,4,7,8-HxCDD	0.0897	JB	0.0398	MDL	5.62	PQL	ng/Kg	U	B	
1,2,3,4,7,8-HXCDF	0.180	JBQ	0.0280	MDL	5.62	PQL	ng/Kg	U	B	
1,2,3,6,7,8-HxCDD	0.266	JB	0.0407	MDL	5.62	PQL	ng/Kg	U	B	
1,2,3,6,7,8-HXCDF	0.127	JB	0.0278	MDL	5.62	PQL	ng/Kg	U	B	
1,2,3,7,8,9-HxCDD	0.279	JBQ	0.0389	MDL	5.62	PQL	ng/Kg	U	B	
1,2,3,7,8,9-HXCDF	0.207	JB	0.0310	MDL	5.62	PQL	ng/Kg	U	B	
1,2,3,7,8-PECDD	0.0747	JBQ	0.0294	MDL	5.62	PQL	ng/Kg	U	B	
1,2,3,7,8-PECDF	0.0951	JBQ	0.0259	MDL	5.62	PQL	ng/Kg	U	B	
2,3,4,6,7,8-HXCDF	0.136	JB	0.0258	MDL	5.62	PQL	ng/Kg	U	B	
2,3,4,7,8-PECDF	0.153	JB	0.0246	MDL	5.62	PQL	ng/Kg	U	B	
2,3,7,8-TCDD	0.0269	JQ	0.0252	MDL	1.12	PQL	ng/Kg	J	Z	
2,3,7,8-TCDF	0.0506	JBQ	0.0468	MDL	1.12	PQL	ng/Kg	U	B	
OCDF	1.62	JB	0.0341	MDL	11.2	PQL	ng/Kg	U	B	

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-058-SA5DN-SS-0.0-0.5

Collected: 5/18/2011 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.06	JB	0.0278	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.351	JB	0.0358	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.324	JB	0.0530	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.09	JB	0.0541	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.36	JB	0.0527	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.345	JBQ	0.0465	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.26	JB	0.0528	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.01	JB	0.0436	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.301	JB	0.0433	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.390	JB	0.0424	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.429	JB	0.0374	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.819	JB	0.0408	MDL	5.66	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0577	JQ	0.0276	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.526	JBQ	0.0885	MDL	1.13	PQL	ng/Kg	J	Z

Sample ID: SL-059-SA5DN-SS-0.0-0.5

Collected: 5/18/2011 2:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.69	JB	0.0464	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.731	JB	0.0392	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0345	JBQ	0.0244	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0666	JB	0.0373	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.305	JBQ	0.0705	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.353	JB	0.0405	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.155	JBQ	0.0644	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.385	JB	0.0350	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.499	JBQ	0.0265	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.117	JBQ	0.0221	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.118	JBQ	0.0240	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.189	JB	0.0218	MDL	5.57	PQL	ng/Kg	U	B
OCDF	2.48	JB	0.0391	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category:	SVOA	
Method:	1613B	Matrix: SO

Sample ID: SL-064-SA5DN-SS-0.0-0.5      Collected: 5/18/2011 10:28:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.93	JB	0.0800	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.60	JB	0.124	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.17	JB	0.111	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.68	JB	0.0674	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.20	JB	0.0793	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.07	JB	0.0918	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.23	JB	0.0576	MDL	5.77	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.24	JB	0.0824	MDL	5.77	PQL	ng/Kg	J	Z
OCDD	7850	EB	0.293	MDL	11.5	PQL	ng/Kg	J	*XI

Sample ID: SL-065-SA5DN-SS-0.0-0.5      Collected: 5/18/2011 10:53:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.05	JB	0.0682	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	5.19	JB	0.0676	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.49	JB	0.0628	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.78	JB	0.0551	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.03	JB	0.0631	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.09	JB	0.0789	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.603	JB	0.0426	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.11	JB	0.0539	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.04	JB	0.0419	MDL	5.64	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.375	JB	0.0220	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.623	JBQ	0.0967	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	5070	EB	0.172	MDL	11.3	PQL	ng/Kg	J	*XI

Sample ID: SL-086-SA5DN-SS-0.0-0.5      Collected: 5/18/2011 9:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.639	JB	0.0557	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.10	JB	0.0642	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.773	JB	0.0491	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.465	JB	0.0407	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.982	JB	0.0411	MDL	5.74	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-086-SA5DN-SS-0.0-0.5	Collected: 5/18/2011 9:50:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	2.31	JBQ	0.0583	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.338	JB	0.0228	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.504	JBQ	0.0355	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.359	JB	0.0247	MDL	5.74	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.364	JQ	0.0333	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.114	JBQ	0.0430	MDL	1.15	PQL	ng/Kg	U	B

Sample ID: SL-087-SA5DN-SS-0.0-0.5	Collected: 5/18/2011 9:30:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.28	JB	0.0606	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	5.09	JB	0.0567	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.51	JB	0.0550	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.855	JB	0.0523	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.32	JB	0.0577	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.56	JB	0.0632	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.421	JB	0.0343	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.966	JB	0.0513	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.967	JB	0.0341	MDL	5.60	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.486	JBQ	0.0204	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.404	JB	0.0739	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	5400	EB	0.212	MDL	11.2	PQL	ng/Kg	J	*XI

Sample ID: SL-088-SA5DN-SS-0.0-0.5	Collected: 5/18/2011 10:15:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.83	JB	0.0197	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.261	JB	0.0364	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.85	JB	0.0510	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.297	JB	0.0351	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.27	JB	0.0533	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.231	JB	0.0289	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	5.22	JB	0.0519	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.58	JB	0.0441	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.29	JB	0.0529	MDL	5.56	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-088-SA5DN-SS-0.0-0.5      Collected: 5/18/2011 10:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.369	JB	0.0128	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.240	JB	0.0328	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.172	JBQ	0.0145	MDL	5.56	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.131	JB	0.0175	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0919	JBQ	0.0226	MDL	1.11	PQL	ng/Kg	U	B

Sample ID: SL-089-SA5DN-SS-0.0-0.5      Collected: 5/18/2011 9:05:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	864	B	0.284	MDL	5.78	PQL	ng/Kg	J	Q, Q
1,2,3,4,6,7,8-HPCDF	52.7	B	0.0555	MDL	5.78	PQL	ng/Kg	J	Q, Q
1,2,3,4,7,8,9-HPCDF	2.17	JB	0.0805	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.47	JB	0.0919	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	33.8	B	0.104	MDL	5.78	PQL	ng/Kg	J	Q, Q
1,2,3,6,7,8-HXCDF	1.72	JB	0.0686	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	36.3	B	0.0974	MDL	5.78	PQL	ng/Kg	J	Q, Q
1,2,3,7,8,9-HXCDF	1.38	JB	0.0650	MDL	5.78	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.521	JBQ	0.0213	MDL	5.78	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.05	JB	0.0471	MDL	5.78	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.623	JB	0.0229	MDL	5.78	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	1.08	J	0.0385	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.117	JBQ	0.0425	MDL	1.16	PQL	ng/Kg	U	B
OCDD	16400	EB	0.273	MDL	11.6	PQL	ng/Kg	J	*XI
OCDF	167	B	0.0754	MDL	11.6	PQL	ng/Kg	J	Q, Q

Sample ID: SL-090-SA5DN-SS-0.0-0.5      Collected: 5/18/2011 8:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	10500	EB	0.784	MDL	6.16	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	3.68	JB	0.184	MDL	6.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.938	JB	0.0551	MDL	6.16	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.17	JB	0.0512	MDL	6.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.626	JB	0.0323	MDL	1.23	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.384	JB	0.0745	MDL	1.23	PQL	ng/Kg	J	Z
OCDD	124000	EB	0.637	MDL	12.3	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA		
<b>Method:</b>	1613B	<b>Matrix:</b>	SO

Sample ID: SL-202-SA5DN-SS-0.0-0.5

Collected: 5/18/2011 1:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.91	JB	0.0530	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.330	JB	0.0647	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.334	JB	0.0802	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.620	JB	0.0559	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.87	JB	0.0879	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.372	JB	0.0533	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.01	JBQ	0.0810	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.734	JB	0.0562	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.203	JB	0.0660	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.325	JB	0.0514	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0623	JB	0.0566	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.191	JB	0.0830	MDL	1.12	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

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

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## **Enclosure I**

### **EPA Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DX084

# Method Blank Outlier Report

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: DX084\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1440B370848	5/28/2011 8:48:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDF OCDD OCDF	0.229 ng/Kg 0.170 ng/Kg 0.109 ng/Kg 0.0371 ng/Kg 0.102 ng/Kg 0.0613 ng/Kg 0.0849 ng/Kg 0.0642 ng/Kg 0.0750 ng/Kg 0.0618 ng/Kg 0.0544 ng/Kg 0.0778 ng/Kg 0.0554 ng/Kg 0.0330 ng/Kg 0.871 ng/Kg 0.386 ng/Kg	SL-030-SA5DN-SS-0.0-0.5 SL-033-SA5DN-SS-0.0-0.5 SL-034-SA5DN-SS-0.0-0.5 SL-035-SA5DN-SS-0.0-0.5 SL-054-SA5DN-SS-0.0-0.5 SL-055-SA5DN-SS-0.0-0.5 SL-056-SA5DN-SS-0.0-0.5 SL-058-SA5DN-SS-0.0-0.5 SL-059-SA5DN-SS-0.0-0.5 SL-064-SA5DN-SS-0.0-0.5 SL-086-SA5DN-SS-0.0-0.5 SL-089-SA5DN-SS-0.0-5
BLK1440B371854	6/6/2011 6:54:00 PM	2,3,7,8-TCDF	0.0180 ng/Kg	SL-030-SA5DN-SS-0.0-0.5 SL-033-SA5DN-SS-0.0-0.5 SL-034-SA5DN-SS-0.0-0.5 SL-035-SA5DN-SS-0.0-0.5 SL-054-SA5DN-SS-0.0-0.5 SL-055-SA5DN-SS-0.0-0.5 SL-056-SA5DN-SS-0.0-0.5 SL-058-SA5DN-SS-0.0-0.5 SL-059-SA5DN-SS-0.0-0.5 SL-064-SA5DN-SS-0.0-0.5 SL-086-SA5DN-SS-0.0-0.5 SL-089-SA5DN-SS-0.0-5
BLK1510B371634	6/4/2011 4:34:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD 2,3,7,8-TCDF OCDD OCDF	0.200 ng/Kg 0.109 ng/Kg 0.0942 ng/Kg 0.0479 ng/Kg 0.0539 ng/Kg 0.0457 ng/Kg 0.0472 ng/Kg 0.0778 ng/Kg 0.111 ng/Kg 0.0560 ng/Kg 0.0666 ng/Kg 0.0660 ng/Kg 0.0691 ng/Kg 0.0218 ng/Kg 0.0191 ng/Kg 0.455 ng/Kg 0.232 ng/Kg	DUP-02-SA5DN-QC-051811 SL-031-SA5DN-SS-0.0-0.5 SL-032-SA5DN-SS-0.0-0.5 SL-065-SA5DN-SS-0.0-0.5 SL-087-SA5DN-SS-0.0-0.5 SL-088-SA5DN-SS-0.0-0.5 SL-090-SA5DN-SS-0.0-0.5 SL-202-SA5DN-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-030-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.213 ng/Kg	0.213U ng/Kg
SL-030-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.322 ng/Kg	0.322U ng/Kg
SL-030-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.309 ng/Kg	0.309U ng/Kg
SL-030-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.287 ng/Kg	0.287U ng/Kg
SL-030-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.120 ng/Kg	0.120U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.314 ng/Kg	0.314U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0416 ng/Kg	0.0416U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0799 ng/Kg	0.0799U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: DX084\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.212 ng/Kg	0.212U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0616 ng/Kg	0.0616U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.202 ng/Kg	0.202U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0773 ng/Kg	0.0773U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0611 ng/Kg	0.0611U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0882 ng/Kg	0.0882U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0964 ng/Kg	0.0964U ng/Kg
SL-031-SA5DN-SS-0.0-0.5(RES)	OCDF	0.814 ng/Kg	0.814U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.205 ng/Kg	0.205U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.130 ng/Kg	0.130U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.158 ng/Kg	0.158U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.356 ng/Kg	0.356U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.125 ng/Kg	0.125U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-032-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0243 ng/Kg	0.0243U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.104 ng/Kg	0.104U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.145 ng/Kg	0.145U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.293 ng/Kg	0.293U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.273 ng/Kg	0.273U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.154 ng/Kg	0.154U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0945 ng/Kg	0.0945U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.377 ng/Kg	0.377U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.155 ng/Kg	0.155U ng/Kg
SL-033-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0515 ng/Kg	0.0515U ng/Kg
SL-034-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.428 ng/Kg	0.428U ng/Kg
SL-034-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.287 ng/Kg	0.287U ng/Kg
SL-034-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.371 ng/Kg	0.371U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.392 ng/Kg	0.392U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0450 ng/Kg	0.0450U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0708 ng/Kg	0.0708U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.173 ng/Kg	0.173U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.116 ng/Kg	0.116U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.109 ng/Kg	0.109U ng/Kg
SL-035-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: DX084\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-035-SA5DN-SS-0.0-0.5(RES)	OCDF	0.750 ng/Kg	0.750U ng/Kg
SL-054-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.190 ng/Kg	0.190U ng/Kg
SL-054-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.244 ng/Kg	0.244U ng/Kg
SL-054-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.194 ng/Kg	0.194U ng/Kg
SL-054-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.184 ng/Kg	0.184U ng/Kg
SL-054-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.242 ng/Kg	0.242U ng/Kg
SL-055-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.278 ng/Kg	0.278U ng/Kg
SL-055-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.183 ng/Kg	0.183U ng/Kg
SL-055-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.240 ng/Kg	0.240U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0639 ng/Kg	0.0639U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0897 ng/Kg	0.0897U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.266 ng/Kg	0.266U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.279 ng/Kg	0.279U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.207 ng/Kg	0.207U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0747 ng/Kg	0.0747U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0951 ng/Kg	0.0951U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.136 ng/Kg	0.136U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.153 ng/Kg	0.153U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0506 ng/Kg	0.0506U ng/Kg
SL-056-SA5DN-SS-0.0-0.5(RES)	OCDF	1.62 ng/Kg	1.62U ng/Kg
SL-058-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.351 ng/Kg	0.351U ng/Kg
SL-058-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.345 ng/Kg	0.345U ng/Kg
SL-058-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.301 ng/Kg	0.301U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.731 ng/Kg	0.731U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0666 ng/Kg	0.0666U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.305 ng/Kg	0.305U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.117 ng/Kg	0.117U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-059-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.189 ng/Kg	0.189U ng/Kg
SL-086-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.114 ng/Kg	0.114U ng/Kg
SL-088-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.261 ng/Kg	0.261U ng/Kg
SL-088-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-088-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.240 ng/Kg	0.240U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: DX084\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-088-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.172 ng/Kg	0.172U ng/Kg
SL-088-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0919 ng/Kg	0.0919U ng/Kg
SL-089-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.117 ng/Kg	0.117U ng/Kg
SL-202-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.330 ng/Kg	0.330U ng/Kg
SL-202-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.203 ng/Kg	0.203U ng/Kg
SL-202-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.325 ng/Kg	0.325U ng/Kg
SL-202-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0623 ng/Kg	0.0623U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: DX084\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-089-SA5DN-SS-0-0.5MS	1,2,3,4,6,7,8-HPCDD	1352	286	40.00-135.00	67 (20.00)	1,2,3,4,6,7,8-HPCDD	J (all detects) OCDD No Qual, >4x
SL-089-SA5DN-SS-0-0.5MSD	1,2,3,4,6,7,8-HPCDF	155	-	40.00-135.00	28 (20.00)	1,2,3,4,6,7,8-HPCDF	
(SL-089-SA5DN-SS-0-0.5)	1,2,3,6,7,8-HXCDD	158	-	40.00-135.00	28 (20.00)	1,2,3,6,7,8-HXCDD	
	1,2,3,7,8,9-HXCDD	155	-	40.00-135.00	28 (20.00)	1,2,3,7,8,9-HXCDD	
	OCDD	15695	2327	40.00-135.00	82 (20.00)	OCDD	
	OCDF	242	-	40.00-135.00	45 (20.00)	OCDF	

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: PrepDX084\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 160.3M**  
**Matrix: SO**

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA5DN-SS-0-0.5	DUP-02-SA5DN-QC-051811			
MOISTURE	13.8	14.1	2		No Qualifiers Applied

**Method: 1613B**  
**Matrix: SO**

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-089-SA5DN-SS-0-0.5	DUP-02-SA5DN-QC-051811			
1,2,3,4,6,7,8-HPCDD	864	964	11	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	52.7	55.8	6	50.00	
1,2,3,4,7,8,9-HPCDF	2.17	2.32	7	50.00	
1,2,3,4,7,8-HxCDD	16.9	16.8	1	50.00	
1,2,3,4,7,8-HxCDF	2.47	2.87	15	50.00	
1,2,3,6,7,8-HxCDD	33.8	39.2	15	50.00	
1,2,3,6,7,8-HxCDF	1.72	1.37	23	50.00	
1,2,3,7,8,9-HxCDD	36.3	37.4	3	50.00	
1,2,3,7,8,9-HxCDF	1.38	1.27	8	50.00	
1,2,3,7,8-PECDD	9.62	9.81	2	50.00	
1,2,3,7,8-PECDF	0.521	0.651	22	50.00	
2,3,4,6,7,8-HxCDF	2.05	1.87	9	50.00	
2,3,4,7,8-PECDF	0.623	0.644	3	50.00	
2,3,7,8-TCDD	1.08	0.967	11	50.00	
2,3,7,8-TCDF	0.117	0.109	7	50.00	
OCDD	16400	21100	25	50.00	
OCDF	167	200	18	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: DX084\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-02-SA5DN-QC-051811	1,2,3,4,7,8,9-HPCDF	JB	2.32	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	2.87	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.37	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.27	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.651	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.87	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.644	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.967	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.109	1.14	PQL	ng/Kg	
SL-030-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.64	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.213	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.273	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.592	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.784	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.322	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.659	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.432	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.309	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.283	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.287	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.388	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0662	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.120	1.15	PQL	ng/Kg	
OCDF	JB	3.61	11.5	PQL	ng/Kg		
SL-031-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.26	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.314	5.78	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0416	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0799	5.78	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0524	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.212	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0616	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.202	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.122	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0773	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0611	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0882	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0964	5.78	PQL	ng/Kg	
	OCDF	JB	0.814	11.6	PQL	ng/Kg	
SL-032-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.21	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.205	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.130	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.582	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.576	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.158	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.579	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.356	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.125	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.356	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.147	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.876	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0243	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.984	1.11	PQL	ng/Kg	
OCDF	JB	3.06	11.1	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: DX084\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-033-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.82	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.104	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.145	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.293	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.504	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.273	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.553	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.423	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.154	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0945	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.377	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.155	5.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0495	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0515	1.16	PQL	ng/Kg	
	OCDF	JB	2.14	11.6	PQL	ng/Kg	
SL-034-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JBQ	1.85	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.428	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.267	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.287	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.622	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.517	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.524	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.371	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.447	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.491	5.47	PQL	ng/Kg	
OCDF	JB	3.78	10.9	PQL	ng/Kg		
SL-035-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.86	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.392	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0450	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0708	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.173	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.445	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.554	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.751	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.116	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.163	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.109	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.101	5.62	PQL	ng/Kg	
OCDF	JBQ	0.750	11.2	PQL	ng/Kg		
SL-054-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.59	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.190	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.292	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.859	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.10	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.244	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.871	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.556	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.194	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.184	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.242	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.345	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.276	1.10	PQL	ng/Kg	
	OCDF	JB	7.93	11.0	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: DX084\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-055-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.01	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.278	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.183	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.874	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.46	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.900	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.733	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.400	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.240	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.390	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.438	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.806	5.69	PQL	ng/Kg	
	OCDF	JB	5.20	11.4	PQL	ng/Kg	
SL-056-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.70	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.856	5.62	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0639	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0897	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.180	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.266	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.127	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.279	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.207	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0747	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0951	5.62	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.136	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.153	5.62	PQL	ng/Kg	
2,3,7,8-TCDD	JQ	0.0269	1.12	PQL	ng/Kg		
2,3,7,8-TCDF	JBQ	0.0506	1.12	PQL	ng/Kg		
OCDF	JB	1.62	11.2	PQL	ng/Kg		
SL-058-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.06	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.351	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.324	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.09	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.36	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.345	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.26	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.01	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.301	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.390	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.429	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.819	5.66	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0577	1.13	PQL	ng/Kg	
2,3,7,8-TCDF	JBQ	0.526	1.13	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: DX084\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-059-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.69	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.731	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0345	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0666	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.305	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.353	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.155	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.385	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.499	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.117	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.118	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.189	5.57	PQL	ng/Kg	
	OCDF	JB	2.48	11.1	PQL	ng/Kg	
SL-064-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.93	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	3.60	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.17	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.68	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.20	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.07	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.23	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.24	5.77	PQL	ng/Kg	
2,3,7,8-TCDF	JB	0.865	1.15	PQL	ng/Kg		
SL-065-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.05	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	5.19	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.49	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.78	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.03	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.09	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.603	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.11	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.04	5.64	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.375	1.13	PQL	ng/Kg	
2,3,7,8-TCDF	JBQ	0.623	1.13	PQL	ng/Kg		
SL-086-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.639	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	4.10	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.773	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.465	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.982	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	2.31	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.338	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.504	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.359	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.364	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.114	1.15	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX084

Laboratory: LL

EDD Filename: DX084\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-087-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.28	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	5.09	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.51	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.855	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.32	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.56	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.421	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.966	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.967	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.486	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.404	1.12	PQL	ng/Kg	
SL-088-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.83	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.261	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.85	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.297	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.27	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.231	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	5.22	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.58	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.29	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.369	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.240	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.172	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.131	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0919	1.11	PQL	ng/Kg	
SL-089-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.17	5.78	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	2.47	5.78	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.72	5.78	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.38	5.78	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.521	5.78	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.05	5.78	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.623	5.78	PQL	ng/Kg	
	2,3,7,8-TCDD	J	1.08	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.117	1.16	PQL	ng/Kg	
SL-090-SA5DN-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	3.68	6.16	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	0.938	6.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.17	6.16	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.626	1.23	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.384	1.23	PQL	ng/Kg	
SL-202-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.91	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.330	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.334	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.620	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.87	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.372	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	1.01	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.734	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.203	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.325	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0623	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.191	1.12	PQL	ng/Kg	

Compound Quantitation and Reported CRQLs

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?  
Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		DUP-02-SAFSDN-QC-0.181	OCDD	7 Cal Range	J/P
		SL-064-SAFSDN-SS-0.0-0.5			
		SL-065-SAFSDN-SS-0.0-0.5			
		SL-087-SAFSDN-SS-0.0-0.5			
		SL-089-SAFSDN-SS-0.0-0.5			
		SL-090-SAFSDN-SS-0.0-0.5	OCDD, 1,2,3,7,6,7,8-HxCDD		



# **SAMPLE DELIVERY GROUP**

**DX085**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-May-2011	SL-069-SA5DN-SB-4.0-5.0	6292043	N	METHOD	1613B	III
18-May-2011	SL-069-SA5DN-SB-9.0-10.0	6292044	N	METHOD	1613B	III
18-May-2011	SL-070-SA5DN-SB-4.0-5.0	6292045	N	METHOD	1613B	III
18-May-2011	SL-070-SA5DN-SB-9.0-10.0	6292046	N	METHOD	1613B	III
18-May-2011	SL-074-SA5DN-SB-4.0-5.0	6292047	N	METHOD	1613B	III
18-May-2011	SL-074-SA5DN-SB-9.0-10.0	6292048	N	METHOD	1613B	III
18-May-2011	SL-076-SA5DN-SB-4.0-5.0	6292049	N	METHOD	1613B	III
18-May-2011	SL-076-SA5DN-SB-4.0-5.0MS	6292050	MS	METHOD	1613B	III
18-May-2011	DUP-03-SA5DN-QC-051811	6292053	FD	METHOD	1613B	III
18-May-2011	SL-076-SA5DN-SB-9.0-10.0	6292052	N	METHOD	1613B	III
20-May-2011	SL-036-SA5DN-SS-0.0-0.5	6294861	N	METHOD	1613B	III
20-May-2011	SL-039-SA5DN-SS-0.0-0.5	6294864	N	METHOD	1613B	III
20-May-2011	SL-038-SA5DN-SS-0.0-0.5	6294863	N	METHOD	1613B	III
20-May-2011	SL-037-SA5DN-SS-0.0-0.5	6294862	N	METHOD	1613B	III
20-May-2011	SL-026-SA5DN-SS-0.0-0.5	6294857	N	METHOD	1613B	III
20-May-2011	SL-025-SA5DN-SS-0.0-0.5	6294856	N	METHOD	1613B	III
20-May-2011	SL-024-SA5DN-SS-0.0-0.5	6294855	N	METHOD	1613B	III
20-May-2011	SL-027-SA5DN-SS-0.0-0.5	6294858	N	METHOD	1613B	III
20-May-2011	SL-028-SA5DN-SS-0.0-0.5	6294859	N	METHOD	1613B	III
20-May-2011	SL-029-SA5DN-SS-0.0-0.5	6294860	N	METHOD	1613B	III
20-May-2011	SL-020-SA5DN-SS-0.0-0.5	6294854	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: DUP-03-SA5DN-QC-051811

Collected: 5/18/2011 3:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.56	JB	0.0390	MDL	5.51	PQL	ng/Kg	J	Z, FD
1,2,3,4,6,7,8-HPCDF	0.348	JB	0.0140	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.163	JB	0.0287	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.185	JB	0.0271	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.233	JBQ	0.0313	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDD	0.237	JB	0.0296	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.220	JB	0.0242	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.302	JB	0.0292	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.227	JB	0.0331	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.305	JB	0.0399	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.274	JB	0.0211	MDL	5.51	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.300	JBQ	0.0249	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.261	JB	0.0207	MDL	5.51	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0729	JBQ	0.0374	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0775	JB	0.0425	MDL	1.10	PQL	ng/Kg	UJ	B, FD
OCDD	23.6	B	0.0329	MDL	11.0	PQL	ng/Kg	J	FD
OCDF	0.807	JB	0.0500	MDL	11.0	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-020-SA5DN-SS-0.0-0.5

Collected: 5/20/2011 3:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.958	JB	0.0150	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0204	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.117	JBQ	0.0269	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.749	JB	0.0350	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.345	JBQ	0.0276	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.218	JB	0.0302	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.343	JBQ	0.0268	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.217	JBQ	0.0391	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.188	JB	0.0301	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.450	JB	0.0344	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.239	JB	0.0322	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.389	JB	0.0337	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0537	JBQ	0.0240	MDL	1.03	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

8/16/2011 7:49:10 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-020-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 3:20:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	1.86	JB	0.0280	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-024-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 1:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.15	JB	0.0407	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	JB	0.0578	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.467	JBQ	0.0309	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.409	JB	0.0276	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.75	JB	0.0585	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.436	JB	0.0312	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.378	JBQ	0.0362	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.219	JBQ	0.0211	MDL	5.63	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.430	JB	0.0265	MDL	5.63	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0736	JB	0.0198	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.181	JB	0.0520	MDL	1.13	PQL	ng/Kg	J	Z

Sample ID: SL-025-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 1:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.852	JB	0.0714	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.749	JB	0.0575	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.462	JB	0.0387	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	4.67	JB	0.0591	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.389	JBQ	0.0325	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.18	JB	0.0578	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.464	JB	0.0520	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.317	JB	0.0411	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.300	JB	0.0269	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.496	JB	0.0391	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.244	JB	0.0299	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0469	JB	0.0265	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0934	JB	0.0713	MDL	1.13	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category:	SVOA		
Method:	1613B	Matrix:	SO

Sample ID: SL-026-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 11:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.41	JB	0.0258	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.267	JB	0.0451	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.310	JB	0.0373	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.573	JB	0.0275	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.34	JB	0.0398	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.180	JBQ	0.0229	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.03	JB	0.0383	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.637	JB	0.0334	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.179	JB	0.0339	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.263	JBQ	0.0252	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.205	JB	0.0262	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.205	JB	0.0252	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0801	JB	0.0638	MDL	1.11	PQL	ng/Kg	U	B
OCDF	6.68	JB	0.0373	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-027-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 2:05:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.58	JB	0.0282	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.211	JB	0.0364	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.235	JB	0.0383	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.08	JB	0.0386	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.787	JB	0.0411	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.169	JBQ	0.0347	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.829	JB	0.0396	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.464	JB	0.0424	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.313	JB	0.0415	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.299	JB	0.0374	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.243	JB	0.0362	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.391	JB	0.0365	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0390	JBQ	0.0303	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.237	JB	0.0696	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	4.60	JB	0.0331	MDL	11.6	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B
		<b>Matrix:</b>	SO

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<i>Sample ID: SL-028-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 2:25:00      Analysis Type: RES      Dilution: 1</i>									
<b>Analyte</b>									
1,2,3,4,6,7,8-HPCDF	1.32	JB	0.0211	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.208	JB	0.0328	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.279	JBQ	0.0299	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.545	JB	0.0287	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.596	JB	0.0317	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.282	JBQ	0.0244	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.639	JB	0.0309	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.471	JB	0.0331	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.289	JB	0.0330	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.596	JB	0.0275	MDL	5.72	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.262	JB	0.0268	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.445	JB	0.0287	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0746	JB	0.0234	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.265	JB	0.0541	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	3.12	JB	0.0334	MDL	11.4	PQL	ng/Kg	J	Z

	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
<i>Sample ID: SL-029-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 3:00:00      Analysis Type: RES      Dilution: 1</i>									
<b>Analyte</b>									
1,2,3,4,6,7,8-HPCDF	1.47	JB	0.0214	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.254	JBQ	0.0286	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.383	JBQ	0.0376	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.649	JB	0.0314	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.714	JB	0.0407	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.416	JB	0.0298	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.723	JB	0.0400	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.534	JB	0.0351	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.533	JBQ	0.0351	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.604	JB	0.0288	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.323	JB	0.0310	MDL	5.73	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.532	JB	0.0276	MDL	5.73	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.115	JB	0.0230	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.246	JBQ	0.0489	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	3.16	JB	0.0307	MDL	11.5	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-036-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 9:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.29	JB	0.0692	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.908	JB	0.0673	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.973	JB	0.0436	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.634	JB	0.0392	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.51	JB	0.0688	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.526	JB	0.0506	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.280	JB	0.0487	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.351	JBQ	0.0369	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.596	JB	0.0420	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.463	JB	0.0371	MDL	5.56	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0627	JBQ	0.0316	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.428	JBQ	0.117	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	5140	EB	0.180	MDL	11.1	PQL	ng/Kg	J	*XI

Sample ID: SL-037-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 11:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.65	JB	0.0231	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.314	JB	0.0279	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.360	JB	0.0353	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.459	JB	0.0276	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.86	JB	0.0375	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.225	JB	0.0247	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.21	JB	0.0362	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.592	JB	0.0290	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.222	JB	0.0295	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.226	JBQ	0.0235	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.282	JB	0.0230	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.431	JB	0.0239	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0707	JB	0.0197	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.284	JB	0.0534	MDL	1.14	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-038-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 10:55:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.877	JB	0.0465	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.656	JB	0.0546	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.577	JB	0.0327	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	4.00	JB	0.0592	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.388	JB	0.0275	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	1.88	JB	0.0577	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.648	JB	0.0451	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.264	JB	0.0365	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.533	JB	0.0285	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.489	JB	0.0332	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.378	JBQ	0.0308	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0263	JB	0.0230	MDL	1.16	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.261	JBQ	0.0744	MDL	1.16	PQL	ng/Kg	J	Z

Sample ID: SL-039-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 10:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.08	JB	0.0576	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.710	JB	0.0458	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.521	JB	0.0336	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	4.97	JB	0.0495	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.438	JB	0.0266	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	2.34	JB	0.0467	MDL	5.77	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.604	JB	0.0479	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.252	JBQ	0.0389	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.352	JBQ	0.0234	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.490	JB	0.0328	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.315	JBQ	0.0261	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0397	JBQ	0.0237	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.231	JB	0.0699	MDL	1.15	PQL	ng/Kg	J	Z

Sample ID: SL-069-SA5DN-SB-4.0-5.0      Collected: 5/18/2011 9:18:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.297	JB	0.0177	MDL	5.77	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-069-SA5DN-SB-4.0-5.0	Collected: 5/18/2011 9:18:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.193	JB	0.00674	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0740	JB	0.00942	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0486	JBQ	0.0152	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0853	JBQ	0.0137	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.245	JBQ	0.0167	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0798	JBQ	0.0124	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.430	JB	0.0156	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.455	JB	0.0151	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0920	JB	0.0217	MDL	5.77	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.121	JBQ	0.0105	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0829	JB	0.0122	MDL	5.77	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.127	JB	0.0101	MDL	5.77	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0355	JB	0.0167	MDL	1.15	PQL	ng/Kg	U	B
OCDD	0.893	JBQ	0.0136	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.238	JB	0.0202	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-069-SA5DN-SB-9.0-10.0	Collected: 5/18/2011 9:24:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.308	JB	0.0233	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.203	JB	0.0109	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.117	JBQ	0.0166	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0645	JBQ	0.0197	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0881	JBQ	0.0165	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0987	JB	0.0214	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0788	JBQ	0.0149	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.133	JB	0.0207	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.157	JB	0.0194	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.111	JBQ	0.0253	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.108	JB	0.0134	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.120	JB	0.0157	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.116	JB	0.0131	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0472	JB	0.0257	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0288	JBQ	0.0242	MDL	1.14	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

8/16/2011 7:49:11 AM

ADR version 1.4.0.111

# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-069-SA5DN-SB-9.0-10.0      Collected: 5/18/2011 9:24:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.708	JB	0.0202	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.255	JBQ	0.0264	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-070-SA5DN-SB-4.0-5.0      Collected: 5/18/2011 10:49:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.256	JB	0.0220	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.165	JB	0.0104	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0498	JB	0.0142	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0630	JBQ	0.0195	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0815	JBQ	0.0164	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.189	JB	0.0202	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0862	JB	0.0143	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.308	JB	0.0190	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.310	JBQ	0.0195	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0782	JBQ	0.0243	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0948	JBQ	0.0136	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.102	JBQ	0.0152	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.128	JB	0.0128	MDL	5.65	PQL	ng/Kg	U	B
OCDD	0.831	JB	0.0200	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.182	JBQ	0.0236	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-070-SA5DN-SB-9.0-10.0      Collected: 5/18/2011 10:53:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.273	JB	0.0200	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.168	JB	0.00934	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0994	JB	0.0143	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0506	JBQ	0.0191	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0792	JB	0.0148	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0978	JB	0.0203	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0886	JBQ	0.0129	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0869	JB	0.0190	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0873	JB	0.0176	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0873	JB	0.0202	MDL	5.74	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

8/16/2011 7:49:22 AM

ADR version 1.4.0.111

# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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<b>Sample ID:</b> SL-070-SA5DN-SB-9.0-10.0	<b>Collected:</b> 5/18/2011 10:53:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0790	JB	0.0127	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.105	JB	0.0142	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.130	JBQ	0.0130	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0302	JBQ	0.0223	MDL	1.15	PQL	ng/Kg	U	B
OCDD	0.837	JB	0.0182	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.215	JBQ	0.0224	MDL	11.5	PQL	ng/Kg	U	B

<b>Sample ID:</b> SL-074-SA5DN-SB-4.0-5.0	<b>Collected:</b> 5/18/2011 12:44:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.377	JBQ	0.0316	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.168	JB	0.0136	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.169	JB	0.0268	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.115	JBQ	0.0322	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.141	JB	0.0267	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.279	JB	0.0345	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.127	JB	0.0205	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.400	JB	0.0340	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.474	JB	0.0342	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.134	JB	0.0373	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.187	JBQ	0.0214	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.164	JB	0.0227	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.210	JBQ	0.0219	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0491	JBQ	0.0381	MDL	1.12	PQL	ng/Kg	U	B
OCDD	1.29	JB	0.0285	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.220	JBQ	0.0513	MDL	11.2	PQL	ng/Kg	U	B

<b>Sample ID:</b> SL-074-SA5DN-SB-9.0-10.0	<b>Collected:</b> 5/18/2011 12:48:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.345	JBQ	0.0247	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.237	JB	0.00932	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.129	JB	0.0184	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.193	JB	0.0238	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.212	JBQ	0.0200	MDL	5.67	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

8/16/2011 7:49:22 AM

ADR version 1.4.0.111

# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-074-SA5DN-SB-9.0-10.0

Collected: 5/18/2011 12:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.166	JB	0.0248	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.218	JB	0.0156	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.200	JB	0.0232	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.243	JBQ	0.0263	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.231	JBQ	0.0289	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.267	JBQ	0.0178	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.211	JB	0.0188	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.245	JBQ	0.0184	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0836	JB	0.0303	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0533	JB	0.0333	MDL	1.13	PQL	ng/Kg	U	B
OCDD	0.875	JB	0.0207	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.333	JB	0.0351	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-076-SA5DN-SB-4.0-5.0

Collected: 5/18/2011 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.12	JB	0.0344	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,6,7,8-HPCDF	0.832	JB	0.0123	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.191	JB	0.0241	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.283	JB	0.0270	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.422	JB	0.0240	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.474	JB	0.0281	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.426	JB	0.0183	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.493	JB	0.0273	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.388	JB	0.0267	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.510	JBQ	0.0236	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.571	JB	0.0149	MDL	5.45	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.307	JBQ	0.0186	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.485	JB	0.0162	MDL	5.45	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.112	JB	0.0248	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.194	JB	0.0294	MDL	1.09	PQL	ng/Kg	J	Z, FD
OCDD	78.7	B	0.0328	MDL	10.9	PQL	ng/Kg	J	FD
OCDF	1.63	JB	0.0312	MDL	10.9	PQL	ng/Kg	UJ	B, FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-076-SA5DN-SB-9.0-10.0

Collected: 5/18/2011 3:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.14	JB	0.0128	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.424	JB	0.0284	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.390	JB	0.0267	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.435	JB	0.0297	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.598	JB	0.0282	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.405	JB	0.0231	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.506	JB	0.0272	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.498	JB	0.0398	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.458	JB	0.0304	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.488	JBQ	0.0162	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.422	JB	0.0275	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.443	JB	0.0175	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.130	JB	0.0272	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0587	JB	0.0319	MDL	1.13	PQL	ng/Kg	U	B
OCDF	3.29	JB	0.0330	MDL	11.3	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

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

8/16/2011 7:49:22 AM

ADR version 1.4.0.111

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## **Enclosure I**

### **EPA Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

**DX085**

# Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples	
BLK1480B370133	6/4/2011 1:33:00 AM	1,2,3,4,6,7,8-HPCDD	0.291 ng/Kg	DUP-03-SA5DN-QC-051811	
		1,2,3,4,6,7,8-HPCDF	0.196 ng/Kg	SL-020-SA5DN-SS-0.0-0.5	
		1,2,3,4,7,8,9-HPCDF	0.166 ng/Kg	SL-024-SA5DN-SS-0.0-0.5	
		1,2,3,4,7,8-HxCDD	0.0860 ng/Kg	SL-025-SA5DN-SS-0.0-0.5	
		1,2,3,4,7,8-HxCDF	0.149 ng/Kg	SL-026-SA5DN-SS-0.0-0.5	
		1,2,3,6,7,8-HxCDD	0.0968 ng/Kg	SL-027-SA5DN-SS-0.0-0.5	
		1,2,3,6,7,8-HxCDF	0.118 ng/Kg	SL-028-SA5DN-SS-0.0-0.5	
		1,2,3,7,8,9-HxCDD	0.109 ng/Kg	SL-029-SA5DN-SS-0.0-0.5	
		1,2,3,7,8,9-HxCDF	0.230 ng/Kg	SL-036-SA5DN-SS-0.0-0.5	
		1,2,3,7,8-PECDD	0.107 ng/Kg	SL-037-SA5DN-SS-0.0-0.5	
		1,2,3,7,8-PECDF	0.110 ng/Kg	SL-038-SA5DN-SS-0.0-0.5	
		2,3,4,6,7,8-HxCDF	0.165 ng/Kg	SL-039-SA5DN-SS-0.0-0.5	
		2,3,4,7,8-PECDF	0.168 ng/Kg	SL-069-SA5DN-SB-4.0-5.0	
		2,3,7,8-TCDD	0.0875 ng/Kg	SL-069-SA5DN-SB-9.0-10.0	
		2,3,7,8-TCDF	0.0262 ng/Kg	SL-070-SA5DN-SB-4.0-5.0	
		OCDD	0.555 ng/Kg	SL-070-SA5DN-SB-9.0-10.0	
		OCDF	0.516 ng/Kg	SL-074-SA5DN-SB-4.0-5.0	
					SL-074-SA5DN-SB-9.0-10.0
					SL-076-SA5DN-SB-4.0-5.0
					SL-076-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-03-SA5DN-QC-051811(RES)	1,2,3,4,6,7,8-HPCDF	0.348 ng/Kg	0.348U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,4,7,8,9-HPCDF	0.163 ng/Kg	0.163U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,4,7,8-HxCDD	0.185 ng/Kg	0.185U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,4,7,8-HxCDF	0.233 ng/Kg	0.233U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,6,7,8-HxCDD	0.237 ng/Kg	0.237U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,6,7,8-HxCDF	0.220 ng/Kg	0.220U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,7,8,9-HxCDD	0.302 ng/Kg	0.302U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,7,8,9-HxCDF	0.227 ng/Kg	0.227U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,7,8-PECDD	0.305 ng/Kg	0.305U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	1,2,3,7,8-PECDF	0.274 ng/Kg	0.274U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	2,3,4,6,7,8-HxCDF	0.300 ng/Kg	0.300U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	2,3,4,7,8-PECDF	0.261 ng/Kg	0.261U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	2,3,7,8-TCDD	0.0729 ng/Kg	0.0729U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	2,3,7,8-TCDF	0.0775 ng/Kg	0.0775U ng/Kg
DUP-03-SA5DN-QC-051811(RES)	OCDF	0.807 ng/Kg	0.807U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.958 ng/Kg	0.958U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.117 ng/Kg	0.117U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDD	0.345 ng/Kg	0.345U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.218 ng/Kg	0.218U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.343 ng/Kg	0.343U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.217 ng/Kg	0.217U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.188 ng/Kg	0.188U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.450 ng/Kg	0.450U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-020-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.239 ng/Kg	0.239U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.389 ng/Kg	0.389U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0537 ng/Kg	0.0537U ng/Kg
SL-020-SA5DN-SS-0.0-0.5(RES)	OCDF	1.86 ng/Kg	1.86U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.467 ng/Kg	0.467U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.409 ng/Kg	0.409U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.436 ng/Kg	0.436U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.378 ng/Kg	0.378U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.219 ng/Kg	0.219U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.430 ng/Kg	0.430U ng/Kg
SL-024-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0736 ng/Kg	0.0736U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.462 ng/Kg	0.462U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.389 ng/Kg	0.389U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.464 ng/Kg	0.464U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.317 ng/Kg	0.317U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.300 ng/Kg	0.300U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.496 ng/Kg	0.496U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.244 ng/Kg	0.244U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0469 ng/Kg	0.0469U ng/Kg
SL-025-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0934 ng/Kg	0.0934U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.267 ng/Kg	0.267U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.310 ng/Kg	0.310U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.573 ng/Kg	0.573U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.637 ng/Kg	0.637U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.179 ng/Kg	0.179U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.263 ng/Kg	0.263U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.205 ng/Kg	0.205U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.205 ng/Kg	0.205U ng/Kg
SL-026-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0801 ng/Kg	0.0801U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.211 ng/Kg	0.211U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.235 ng/Kg	0.235U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.464 ng/Kg	0.464U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.313 ng/Kg	0.313U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.299 ng/Kg	0.299U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.243 ng/Kg	0.243U ng/Kg

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

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ADR version 1.4.0.111

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-027-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.391 ng/Kg	0.391U ng/Kg
SL-027-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0390 ng/Kg	0.0390U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.279 ng/Kg	0.279U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.545 ng/Kg	0.545U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.282 ng/Kg	0.282U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.471 ng/Kg	0.471U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.289 ng/Kg	0.289U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.262 ng/Kg	0.262U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.445 ng/Kg	0.445U ng/Kg
SL-028-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0746 ng/Kg	0.0746U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.254 ng/Kg	0.254U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.383 ng/Kg	0.383U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.649 ng/Kg	0.649U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.416 ng/Kg	0.416U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.534 ng/Kg	0.534U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.533 ng/Kg	0.533U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.323 ng/Kg	0.323U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.532 ng/Kg	0.532U ng/Kg
SL-029-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.115 ng/Kg	0.115U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.526 ng/Kg	0.526U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.280 ng/Kg	0.280U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.351 ng/Kg	0.351U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.596 ng/Kg	0.596U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.463 ng/Kg	0.463U ng/Kg
SL-036-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0627 ng/Kg	0.0627U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.314 ng/Kg	0.314U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.360 ng/Kg	0.360U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.459 ng/Kg	0.459U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.225 ng/Kg	0.225U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.592 ng/Kg	0.592U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.222 ng/Kg	0.222U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.226 ng/Kg	0.226U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.282 ng/Kg	0.282U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.431 ng/Kg	0.431U ng/Kg
SL-037-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0707 ng/Kg	0.0707U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.577 ng/Kg	0.577U ng/Kg

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

8/11/2011 9:06:50 AM

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-038-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.388 ng/Kg	0.388U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.648 ng/Kg	0.648U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.264 ng/Kg	0.264U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.533 ng/Kg	0.533U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.489 ng/Kg	0.489U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.378 ng/Kg	0.378U ng/Kg
SL-038-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0263 ng/Kg	0.0263U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.521 ng/Kg	0.521U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.438 ng/Kg	0.438U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.604 ng/Kg	0.604U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.252 ng/Kg	0.252U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.352 ng/Kg	0.352U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.490 ng/Kg	0.490U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.315 ng/Kg	0.315U ng/Kg
SL-039-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.297 ng/Kg	0.297U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.193 ng/Kg	0.193U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0740 ng/Kg	0.0740U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0486 ng/Kg	0.0486U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0853 ng/Kg	0.0853U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.245 ng/Kg	0.245U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0798 ng/Kg	0.0798U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.430 ng/Kg	0.430U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.455 ng/Kg	0.455U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0920 ng/Kg	0.0920U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0829 ng/Kg	0.0829U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.127 ng/Kg	0.127U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	OCDD	0.893 ng/Kg	0.893U ng/Kg
SL-069-SA5DN-SB-4.0-5.0(RES)	OCDF	0.238 ng/Kg	0.238U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.308 ng/Kg	0.308U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.203 ng/Kg	0.203U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.117 ng/Kg	0.117U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0645 ng/Kg	0.0645U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0881 ng/Kg	0.0881U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0987 ng/Kg	0.0987U ng/Kg

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

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ADR version 1.4.0.111

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0788 ng/Kg	0.0788U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.133 ng/Kg	0.133U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.111 ng/Kg	0.111U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.108 ng/Kg	0.108U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.116 ng/Kg	0.116U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0472 ng/Kg	0.0472U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0288 ng/Kg	0.0288U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	OCDD	0.708 ng/Kg	0.708U ng/Kg
SL-069-SA5DN-SB-9.0-10.0(RES)	OCDF	0.255 ng/Kg	0.255U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.256 ng/Kg	0.256U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0630 ng/Kg	0.0630U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0815 ng/Kg	0.0815U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.189 ng/Kg	0.189U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0862 ng/Kg	0.0862U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.308 ng/Kg	0.308U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.310 ng/Kg	0.310U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0782 ng/Kg	0.0782U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0948 ng/Kg	0.0948U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.128 ng/Kg	0.128U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	OCDD	0.831 ng/Kg	0.831U ng/Kg
SL-070-SA5DN-SB-4.0-5.0(RES)	OCDF	0.182 ng/Kg	0.182U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.273 ng/Kg	0.273U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0994 ng/Kg	0.0994U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0506 ng/Kg	0.0506U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0792 ng/Kg	0.0792U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0978 ng/Kg	0.0978U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0886 ng/Kg	0.0886U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0869 ng/Kg	0.0869U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0873 ng/Kg	0.0873U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0873 ng/Kg	0.0873U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0790 ng/Kg	0.0790U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-070-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.130 ng/Kg	0.130U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0302 ng/Kg	0.0302U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	OCDD	0.837 ng/Kg	0.837U ng/Kg
SL-070-SA5DN-SB-9.0-10.0(RES)	OCDF	0.215 ng/Kg	0.215U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.377 ng/Kg	0.377U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.168 ng/Kg	0.168U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.169 ng/Kg	0.169U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.115 ng/Kg	0.115U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.141 ng/Kg	0.141U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.279 ng/Kg	0.279U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.400 ng/Kg	0.400U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.474 ng/Kg	0.474U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.134 ng/Kg	0.134U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.187 ng/Kg	0.187U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.164 ng/Kg	0.164U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.210 ng/Kg	0.210U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0491 ng/Kg	0.0491U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	OCDD	1.29 ng/Kg	1.29U ng/Kg
SL-074-SA5DN-SB-4.0-5.0(RES)	OCDF	0.220 ng/Kg	0.220U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.345 ng/Kg	0.345U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.237 ng/Kg	0.237U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.193 ng/Kg	0.193U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.166 ng/Kg	0.166U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.218 ng/Kg	0.218U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.200 ng/Kg	0.200U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.243 ng/Kg	0.243U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.231 ng/Kg	0.231U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.267 ng/Kg	0.267U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.211 ng/Kg	0.211U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.245 ng/Kg	0.245U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0836 ng/Kg	0.0836U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-074-SA5DN-SB-9.0-10.0(RES)	OCDD	0.875 ng/Kg	0.875U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-074-SA5DN-SB-9.0-10.0(RES)	OCDF	0.333 ng/Kg	0.333U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.832 ng/Kg	0.832U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.283 ng/Kg	0.283U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.422 ng/Kg	0.422U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.474 ng/Kg	0.474U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.426 ng/Kg	0.426U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.493 ng/Kg	0.493U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.388 ng/Kg	0.388U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.510 ng/Kg	0.510U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.307 ng/Kg	0.307U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.485 ng/Kg	0.485U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.112 ng/Kg	0.112U ng/Kg
SL-076-SA5DN-SB-4.0-5.0(RES)	OCDF	1.63 ng/Kg	1.63U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.424 ng/Kg	0.424U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.390 ng/Kg	0.390U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.435 ng/Kg	0.435U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.405 ng/Kg	0.405U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.506 ng/Kg	0.506U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.498 ng/Kg	0.498U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.458 ng/Kg	0.458U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.488 ng/Kg	0.488U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.422 ng/Kg	0.422U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.443 ng/Kg	0.443U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.130 ng/Kg	0.130U ng/Kg
SL-076-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0587 ng/Kg	0.0587U ng/Kg

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

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# Field Duplicate RPD Report

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: PrepDX085\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-076-SA5DN-SB-4.0-5.0	DUP-03-SA5DN-QC-051811			
MOISTURE	9.5	11.2	16		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-076-SA5DN-SB-4.0-5.0	DUP-03-SA5DN-QC-051811			
1,2,3,4,7,8,9-HPCDF	0.191	0.163	16	50.00	No Qualifiers Applied
1,2,3,4,7,8-HxCDD	0.283	0.185	42	50.00	
1,2,3,7,8,9-HxCDD	0.493	0.302	48	50.00	
2,3,4,6,7,8-HxCDF	0.307	0.300	2	50.00	
2,3,7,8-TCDD	0.112	0.0729	42	50.00	
1,2,3,4,6,7,8-HPCDD	5.12	1.56	107	50.00	J(all detects)
1,2,3,4,6,7,8-HPCDF	0.832	0.348	82	50.00	
1,2,3,4,7,8-HxCDF	0.422	0.233	58	50.00	
1,2,3,6,7,8-HxCDD	0.474	0.237	67	50.00	
1,2,3,6,7,8-HxCDF	0.426	0.220	64	50.00	
1,2,3,7,8,9-HxCDF	0.388	0.227	52	50.00	
1,2,3,7,8-PECDD	0.510	0.305	50	50.00	
1,2,3,7,8-PECDF	0.571	0.274	70	50.00	
2,3,4,7,8-PECDF	0.485	0.261	60	50.00	
2,3,7,8-TCDF	0.194	0.0775	86	50.00	
OCDD	78.7	23.6	108	50.00	
OCDF	1.63	0.807	68	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-03-SA5DN-QC-051811	1,2,3,4,6,7,8-HPCDD	JB	1.56	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.348	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.163	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.185	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.233	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.237	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.220	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.302	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.227	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.305	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.274	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.300	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.261	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0729	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0775	1.10	PQL	ng/Kg	
	OCDF	JB	0.807	11.0	PQL	ng/Kg	
	SL-020-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.958	5.17	PQL	
1,2,3,4,7,8,9-HPCDF		JBQ	0.121	5.17	PQL	ng/Kg	
1,2,3,4,7,8-HxCDD		JBQ	0.117	5.17	PQL	ng/Kg	
1,2,3,4,7,8-HXCDF		JB	0.749	5.17	PQL	ng/Kg	
1,2,3,6,7,8-HXCDD		JBQ	0.345	5.17	PQL	ng/Kg	
1,2,3,6,7,8-HXCDF		JB	0.218	5.17	PQL	ng/Kg	
1,2,3,7,8,9-HXCDD		JBQ	0.343	5.17	PQL	ng/Kg	
1,2,3,7,8,9-HXCDF		JBQ	0.217	5.17	PQL	ng/Kg	
1,2,3,7,8-PECDD		JB	0.188	5.17	PQL	ng/Kg	
1,2,3,7,8-PECDF		JB	0.450	5.17	PQL	ng/Kg	
2,3,4,6,7,8-HXCDF		JB	0.239	5.17	PQL	ng/Kg	
2,3,4,7,8-PECDF		JB	0.389	5.17	PQL	ng/Kg	
2,3,7,8-TCDD		JBQ	0.0537	1.03	PQL	ng/Kg	
OCDF	JB	1.86	10.3	PQL	ng/Kg		
SL-024-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.15	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.08	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.467	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.409	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.75	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.436	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.378	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.219	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.430	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0736	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.181	1.13	PQL	ng/Kg	
SL-025-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.852	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.749	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.462	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.67	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.389	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.18	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.464	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.317	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.300	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.496	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.244	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0469	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0934	1.13	PQL	ng/Kg	

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

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# Reporting Limit Outliers

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-026-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.41	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.267	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.310	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.573	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.34	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.180	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.03	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.637	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.179	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.263	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDD	JB	0.205	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.205	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0801	1.11	PQL	ng/Kg	
	OCDF	JB	6.68	11.1	PQL	ng/Kg	
SL-027-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.58	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.211	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.235	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.08	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.787	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.169	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.829	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.464	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.313	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.299	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDD	JB	0.243	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.391	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0390	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.237	1.16	PQL	ng/Kg	
OCDF	JB	4.60	11.6	PQL	ng/Kg		
SL-028-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.32	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.208	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.279	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.545	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.596	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.282	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.639	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.471	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.289	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.596	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDD	JB	0.262	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.445	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0746	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.265	1.14	PQL	ng/Kg	
OCDF	JB	3.12	11.4	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-029-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.47	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.254	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.383	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.649	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.714	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.416	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.723	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.534	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.533	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.604	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDD	JB	0.323	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.532	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.115	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.246	1.15	PQL	ng/Kg	
	OCDF	JB	3.16	11.5	PQL	ng/Kg	
SL-036-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.29	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.908	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.973	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.634	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.51	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.526	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.280	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.351	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDD	JB	0.596	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.463	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0627	1.11	PQL	ng/Kg	
2,3,7,8-TCDF	JBQ	0.428	1.11	PQL	ng/Kg		
SL-037-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.65	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.314	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.360	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.459	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.86	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.225	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.21	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.592	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.222	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.226	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDD	JB	0.282	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.431	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0707	1.14	PQL	ng/Kg	
2,3,7,8-TCDF	JB	0.284	1.14	PQL	ng/Kg		
SL-038-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.877	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.656	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.577	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	4.00	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.388	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.88	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.648	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.264	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.533	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDD	JB	0.489	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.378	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0263	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.261	1.16	PQL	ng/Kg	

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

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# Reporting Limit Outliers

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-039-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.08	5.77	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.710	5.77	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.521	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	4.97	5.77	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.438	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.34	5.77	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.604	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.252	5.77	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.352	5.77	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.490	5.77	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.315	5.77	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0397	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.231	1.15	PQL	ng/Kg	
	SL-069-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.297	5.77	PQL	
1,2,3,4,6,7,8-HPCDF		JB	0.193	5.77	PQL	ng/Kg	
1,2,3,4,7,8,9-HPCDF		JB	0.0740	5.77	PQL	ng/Kg	
1,2,3,4,7,8-HxCDD		JBQ	0.0486	5.77	PQL	ng/Kg	
1,2,3,4,7,8-HXCDF		JBQ	0.0853	5.77	PQL	ng/Kg	
1,2,3,6,7,8-HxCDD		JBQ	0.245	5.77	PQL	ng/Kg	
1,2,3,6,7,8-HXCDF		JBQ	0.0798	5.77	PQL	ng/Kg	
1,2,3,7,8,9-HxCDD		JB	0.430	5.77	PQL	ng/Kg	
1,2,3,7,8,9-HXCDF		JB	0.455	5.77	PQL	ng/Kg	
1,2,3,7,8-PECDD		JB	0.0920	5.77	PQL	ng/Kg	
1,2,3,7,8-PECDF		JBQ	0.121	5.77	PQL	ng/Kg	
2,3,4,6,7,8-HXCDF		JB	0.0829	5.77	PQL	ng/Kg	
2,3,4,7,8-PECDF		JB	0.127	5.77	PQL	ng/Kg	
2,3,7,8-TCDD		JB	0.0355	1.15	PQL	ng/Kg	
OCDD		JBQ	0.893	11.5	PQL	ng/Kg	
OCDF		JB	0.238	11.5	PQL	ng/Kg	
SL-069-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.308	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.203	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.117	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0645	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0881	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0987	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0788	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.133	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.157	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.111	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.108	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.120	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.116	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0472	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0288	1.14	PQL	ng/Kg	
	OCDD	JB	0.708	11.4	PQL	ng/Kg	
OCDF	JBQ	0.255	11.4	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-070-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.256	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.165	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0498	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0630	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0815	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.189	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0862	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.308	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.310	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0782	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0948	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.102	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.128	5.65	PQL	ng/Kg	
	OCDD	JB	0.831	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.182	11.3	PQL	ng/Kg	
SL-070-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.273	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.168	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0994	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0506	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0792	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0978	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0886	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0869	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0873	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0873	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0790	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.105	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.130	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0302	1.15	PQL	ng/Kg	
	OCDD	JB	0.837	11.5	PQL	ng/Kg	
OCDF	JBQ	0.215	11.5	PQL	ng/Kg		
SL-074-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.377	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.168	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.169	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.115	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.141	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.279	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.127	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.400	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.474	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.134	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.187	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.164	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.210	5.59	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0491	1.12	PQL	ng/Kg	
	OCDD	JB	1.29	11.2	PQL	ng/Kg	
OCDF	JBQ	0.220	11.2	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX085

Laboratory: LL

EDD Filename: DX085\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag		
SL-074-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.345	5.67	PQL	ng/Kg	J (all detects)		
	1,2,3,4,6,7,8-HPCDF	JB	0.237	5.67	PQL	ng/Kg			
	1,2,3,4,7,8,9-HPCDF	JB	0.129	5.67	PQL	ng/Kg			
	1,2,3,4,7,8-HxCDD	JB	0.193	5.67	PQL	ng/Kg			
	1,2,3,4,7,8-HxCDF	JBQ	0.212	5.67	PQL	ng/Kg			
	1,2,3,6,7,8-HxCDD	JB	0.166	5.67	PQL	ng/Kg			
	1,2,3,6,7,8-HxCDF	JB	0.218	5.67	PQL	ng/Kg			
	1,2,3,7,8,9-HxCDD	JB	0.200	5.67	PQL	ng/Kg			
	1,2,3,7,8,9-HxCDF	JBQ	0.243	5.67	PQL	ng/Kg			
	1,2,3,7,8-PECDD	JBQ	0.231	5.67	PQL	ng/Kg			
	1,2,3,7,8-PECDF	JBQ	0.267	5.67	PQL	ng/Kg			
	2,3,4,6,7,8-HxCDF	JB	0.211	5.67	PQL	ng/Kg			
	2,3,4,7,8-PECDF	JBQ	0.245	5.67	PQL	ng/Kg			
	2,3,7,8-TCDD	JB	0.0836	1.13	PQL	ng/Kg			
	2,3,7,8-TCDF	JB	0.0533	1.13	PQL	ng/Kg			
	OCDD	JB	0.875	11.3	PQL	ng/Kg			
	OCDF	JB	0.333	11.3	PQL	ng/Kg			
	SL-076-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	5.12	5.45	PQL		ng/Kg	J (all detects)
		1,2,3,4,6,7,8-HPCDF	JB	0.832	5.45	PQL		ng/Kg	
1,2,3,4,7,8,9-HPCDF		JB	0.191	5.45	PQL	ng/Kg			
1,2,3,4,7,8-HxCDD		JB	0.283	5.45	PQL	ng/Kg			
1,2,3,4,7,8-HxCDF		JB	0.422	5.45	PQL	ng/Kg			
1,2,3,6,7,8-HxCDD		JB	0.474	5.45	PQL	ng/Kg			
1,2,3,6,7,8-HxCDF		JB	0.426	5.45	PQL	ng/Kg			
1,2,3,7,8,9-HxCDD		JB	0.493	5.45	PQL	ng/Kg			
1,2,3,7,8,9-HxCDF		JB	0.388	5.45	PQL	ng/Kg			
1,2,3,7,8-PECDD		JBQ	0.510	5.45	PQL	ng/Kg			
1,2,3,7,8-PECDF		JB	0.571	5.45	PQL	ng/Kg			
2,3,4,6,7,8-HxCDF		JBQ	0.307	5.45	PQL	ng/Kg			
2,3,4,7,8-PECDF		JB	0.485	5.45	PQL	ng/Kg			
2,3,7,8-TCDD		JB	0.112	1.09	PQL	ng/Kg			
2,3,7,8-TCDF	JB	0.194	1.09	PQL	ng/Kg				
OCDF	JB	1.63	10.9	PQL	ng/Kg				
SL-076-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.14	5.65	PQL	ng/Kg	J (all detects)		
	1,2,3,4,7,8,9-HPCDF	JB	0.424	5.65	PQL	ng/Kg			
	1,2,3,4,7,8-HxCDD	JB	0.390	5.65	PQL	ng/Kg			
	1,2,3,4,7,8-HxCDF	JB	0.435	5.65	PQL	ng/Kg			
	1,2,3,6,7,8-HxCDD	JB	0.598	5.65	PQL	ng/Kg			
	1,2,3,6,7,8-HxCDF	JB	0.405	5.65	PQL	ng/Kg			
	1,2,3,7,8,9-HxCDD	JB	0.506	5.65	PQL	ng/Kg			
	1,2,3,7,8,9-HxCDF	JB	0.498	5.65	PQL	ng/Kg			
	1,2,3,7,8-PECDD	JB	0.458	5.65	PQL	ng/Kg			
	1,2,3,7,8-PECDF	JBQ	0.488	5.65	PQL	ng/Kg			
	2,3,4,6,7,8-HxCDF	JB	0.422	5.65	PQL	ng/Kg			
	2,3,4,7,8-PECDF	JB	0.443	5.65	PQL	ng/Kg			
	2,3,7,8-TCDD	JB	0.130	1.13	PQL	ng/Kg			
	2,3,7,8-TCDF	JB	0.0587	1.13	PQL	ng/Kg			
	OCDF	JB	3.29	11.3	PQL	ng/Kg			



# **SAMPLE DELIVERY GROUP**

**DX086**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-May-2011	SL-047-SA5DN-SS-0.0-0.5	6293492	N	METHOD	1613B	III
19-May-2011	SL-048-SA5DN-SS-0.0-0.5	6293493	N	METHOD	1613B	III
19-May-2011	SL-046-SA5DN-SS-0.0-0.5	6293491	N	METHOD	1613B	III
19-May-2011	SL-043-SA5DN-SS-0.0-0.5	6293487	N	METHOD	1613B	III
19-May-2011	SL-043-SA5DN-SS-0.0-0.5MS	6293488	MS	METHOD	1613B	III
19-May-2011	DUP-04-SA5DN-QC-051911	6293495	FD	METHOD	1613B	III
19-May-2011	SL-042-SA5DN-SS-0.0-0.5	6293486	N	METHOD	1613B	III
19-May-2011	SL-041-SA5DN-SS-0.0-0.5	6293485	N	METHOD	1613B	III
19-May-2011	SL-045-SA5DN-SS-0.0-0.5	6293490	N	METHOD	1613B	III
19-May-2011	SL-049-SA5DN-SS-0.0-0.5	6293494	N	METHOD	1613B	III
20-May-2011	SL-050-SA5DN-SS-0.0-0.5	6294867	N	METHOD	1613B	III
20-May-2011	SL-051-SA5DN-SS-0.0-0.5	6294868	N	METHOD	1613B	III
20-May-2011	SL-040-SA5DN-SS-0.0-0.5	6294865	N	METHOD	1613B	III
20-May-2011	SL-065-SA5DN-SB-4.0-5.0	6294870	N	METHOD	1613B	III
20-May-2011	SL-065-SA5DN-SB-7.0-8.0	6294871	N	METHOD	1613B	III
20-May-2011	SL-064-SA5DN-SB-4.0-5.0	6294869	N	METHOD	1613B	III
20-May-2011	SL-088-SA5DN-SB-4.0-5.0	6294873	N	METHOD	1613B	III
20-May-2011	SL-044-SA5DN-SS-0.0-0.5	6294866	N	METHOD	1613B	III
20-May-2011	SL-086-SA5DN-SB-4.0-5.0	6294872	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: DUP-04-SA5DN-QC-051911

Collected: 5/19/2011 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.79	JB	0.0411	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.371	JB	0.0485	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.614	JB	0.0720	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.639	JB	0.0487	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.79	JB	0.0746	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.235	JBQ	0.0420	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.41	JB	0.0715	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.393	JBQ	0.0417	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.320	JBQ	0.0286	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.107	JBQ	0.0265	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.307	JB	0.0329	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.214	JB	0.0272	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0532	JQ	0.0147	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0428	U	0.0428	MDL	1.15	PQL	ng/Kg	UJ	FD

Sample ID: SL-040-SA5DN-SS-0.0-0.5

Collected: 5/20/2011 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.662	JB	0.0808	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.648	JBQ	0.0952	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.149	JB	0.0627	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	3.93	JB	0.0953	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.258	JB	0.0534	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.88	JB	0.0863	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.459	JB	0.0475	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.197	JB	0.0279	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0893	JBQ	0.0258	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.264	JB	0.0394	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.239	JBQ	0.0271	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0210	JQ	0.0165	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.208	JB	0.0509	MDL	1.16	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: SL-041-SA5DN-SS-0.0-0.5

Collected: 5/19/2011 10:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.878	JB	0.0402	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.996	JB	0.0540	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.651	JB	0.0303	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.377	JB	0.0292	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.77	JB	0.0574	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.660	JB	0.0334	MDL	5.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.347	JBQ	0.0321	MDL	5.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.243	JBQ	0.0273	MDL	5.83	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.442	JB	0.0307	MDL	5.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.560	JB	0.0248	MDL	5.83	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0508	JB	0.0208	MDL	1.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.375	J	0.0692	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	5340	EB	0.116	MDL	11.7	PQL	ng/Kg	J	*XI

Sample ID: SL-042-SA5DN-SS-0.0-0.5

Collected: 5/19/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.65	JB	0.0447	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.442	JB	0.0566	MDL	9.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.567	JB	0.0804	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.424	JBQ	0.0494	MDL	9.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	2.12	JB	0.0832	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.282	JB	0.0444	MDL	9.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.47	JB	0.0802	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.625	JB	0.0466	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.428	JBQ	0.0516	MDL	9.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.293	JB	0.0418	MDL	9.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.285	JBQ	0.0412	MDL	9.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.366	JBQ	0.0377	MDL	9.18	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0895	JBQ	0.0405	MDL	1.84	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.227	J	0.102	MDL	1.84	PQL	ng/Kg	J	Z
OCDF	11.8	JB	0.0567	MDL	18.4	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: SL-043-SA5DN-SS-0.0-0.5

Collected: 5/19/2011 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.81	JB	0.0265	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.407	JB	0.0332	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.580	JB	0.0384	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.522	JB	0.0260	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.77	JB	0.0411	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.241	JB	0.0231	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	1.49	JB	0.0399	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.420	JB	0.0275	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.337	JB	0.0291	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.106	JBQ	0.0268	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.333	JB	0.0232	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.235	JBQ	0.0249	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0353	JB	0.0197	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.196	JQ	0.0445	MDL	1.13	PQL	ng/Kg	J	Z, FD

Sample ID: SL-044-SA5DN-SS-0.0-0.5

Collected: 5/20/2011 2:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.30	JB	0.0202	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.229	JBQ	0.0268	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.203	JBQ	0.0321	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.599	JB	0.0288	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.853	JB	0.0334	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.193	JBQ	0.0264	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.664	JBQ	0.0315	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.437	JB	0.0318	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.136	JBQ	0.0276	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.137	JB	0.0265	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.216	JB	0.0270	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.447	JBQ	0.0240	MDL	5.56	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0661	JB	0.0175	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.168	J	0.0526	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	6.46	JB	0.0271	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-045-SA5DN-SS-0.0-0.5      Collected: 5/19/2011 10:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.51	JB	0.0217	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.499	JB	0.0264	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.619	JB	0.0347	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.556	JB	0.0218	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.26	JB	0.0356	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.352	JBQ	0.0208	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.59	JB	0.0342	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.719	JB	0.0246	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.401	JBQ	0.0309	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.471	JB	0.0247	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.361	JB	0.0202	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.458	JB	0.0236	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0542	JBQ	0.0165	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.317	JQ	0.0595	MDL	1.15	PQL	ng/Kg	J	Z

Sample ID: SL-046-SA5DN-SS-0.0-0.5      Collected: 5/19/2011 9:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.630	JB	0.0426	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.886	JB	0.0528	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.518	JB	0.0283	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.24	JB	0.0578	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.406	JB	0.0265	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.29	JB	0.0547	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.721	JBQ	0.0303	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.563	JBQ	0.0385	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.223	JB	0.0286	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.529	JB	0.0261	MDL	5.61	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.539	JB	0.0270	MDL	5.61	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.150	JBQ	0.0253	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.347	JQ	0.0536	MDL	1.12	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-047-SA5DN-SS-0.0-0.5      Collected: 5/19/2011 8:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.434	JB	0.0251	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.18	JB	0.0271	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.587	JBQ	0.0237	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	4.03	JB	0.0274	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.381	JB	0.0212	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	2.63	JB	0.0266	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.442	JB	0.0210	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.745	JB	0.0326	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.299	JB	0.0202	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.494	JBQ	0.0187	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.404	JBQ	0.0183	MDL	5.39	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.155	J	0.0318	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-048-SA5DN-SS-0.0-0.5      Collected: 5/19/2011 8:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.98	JB	0.0671	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.68	JB	0.0765	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.75	JB	0.0631	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.09	JB	0.0630	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.714	JB	0.0688	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.38	JB	0.0710	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.35	JB	0.0598	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.39	JB	0.0596	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.02	JBQ	0.0552	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.164	JB	0.0183	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.698	J	0.118	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	4330	EB	0.179	MDL	10.7	PQL	ng/Kg	J	*XI

Sample ID: SL-049-SA5DN-SS-0.0-0.5      Collected: 5/19/2011 11:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.08	JB	0.0319	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.408	JB	0.0371	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.724	JB	0.0594	MDL	5.45	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

**Sample ID:** SL-049-SA5DN-SS-0.0-0.5 **Collected:** 5/19/2011 11:10:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.759	JB	0.0484	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.51	JB	0.0630	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.557	JB	0.0470	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.23	JB	0.0601	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.29	JB	0.0484	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.478	JBQ	0.0526	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.01	JB	0.0504	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.433	JBQ	0.0441	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.801	JB	0.0465	MDL	5.45	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0302	JBQ	0.0149	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.842	J	0.101	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	9.69	JB	0.0421	MDL	10.9	PQL	ng/Kg	J	Z

**Sample ID:** SL-050-SA5DN-SS-0.0-0.5 **Collected:** 5/20/2011 8:45:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.29	JBQ	0.144	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.21	JB	0.0977	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.20	JB	0.0946	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.41	JB	0.0893	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	5.08	JB	0.105	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.03	JB	0.115	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.33	JB	0.0902	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.356	JB	0.0837	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.17	JB	0.0928	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.08	JB	0.0791	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.122	JB	0.0247	MDL	1.09	PQL	ng/Kg	J	Z

**Sample ID:** SL-051-SA5DN-SS-0.0-0.5 **Collected:** 5/20/2011 9:15:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.15	JB	0.0533	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.245	JB	0.0458	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.383	JB	0.0969	MDL	5.36	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA
<b>Method:</b>	1613B
<b>Matrix:</b>	SO

Sample ID: SL-051-SA5DN-SS-0.0-0.5      Collected: 5/20/2011 9:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.470	JBQ	0.0721	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.74	JB	0.0981	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.399	JB	0.0589	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.45	JB	0.0827	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.959	JB	0.0411	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.316	JB	0.0384	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.215	JBQ	0.0280	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.305	JB	0.0364	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.529	JB	0.0262	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.376	JB	0.0504	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	5.76	JB	0.0538	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-064-SA5DN-SB-4.0-5.0      Collected: 5/20/2011 11:34:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.504	JB	0.0223	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.249	JBQ	0.0153	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0939	JBQ	0.0213	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0620	JBQ	0.0182	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.115	JB	0.0319	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.115	JB	0.0201	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0937	JB	0.0230	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.119	JBQ	0.0176	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.168	JB	0.0176	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0716	JBQ	0.0174	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0909	JBQ	0.00926	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.118	JB	0.0119	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0984	JBQ	0.0102	MDL	5.74	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0298	JBQ	0.0153	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0161	JQ	0.0160	MDL	1.15	PQL	ng/Kg	J	Z
OCDD	4.59	JB	0.0282	MDL	11.5	PQL	ng/Kg	J	Z
OCDF	0.391	JB	0.0438	MDL	11.5	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-065-SA5DN-SB-4.0-5.0      Collected: 5/20/2011 10:44:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.543	JB	0.0497	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0447	JBQ	0.0199	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0364	JB	0.0170	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.108	JB	0.0267	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.209	JB	0.0257	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.231	JB	0.0214	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0548	JBQ	0.0285	MDL	5.62	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0461	JBQ	0.0135	MDL	5.62	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0571	JBQ	0.0139	MDL	5.62	PQL	ng/Kg	U	B
OCDD	1.52	JB	0.0590	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.255	JBQ	0.0806	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-065-SA5DN-SB-7.0-8.0      Collected: 5/20/2011 10:52:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.372	JB	0.0381	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0291	JBQ	0.0121	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0471	JBQ	0.0358	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0138	JBQ	0.0123	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0408	JBQ	0.0164	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0165	JB	0.00963	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0629	JBQ	0.0155	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0522	JB	0.0165	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0187	JBQ	0.00831	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0430	JB	0.00952	MDL	5.52	PQL	ng/Kg	U	B
OCDD	0.738	JB	0.0439	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.133	JBQ	0.0730	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-086-SA5DN-SB-4.0-5.0      Collected: 5/20/2011 3:35:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.00	JB	0.0206	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.174	JB	0.00709	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0688	JBQ	0.0165	MDL	5.59	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-086-SA5DN-SB-4.0-5.0      Collected: 5/20/2011 3:35:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0339	JBQ	0.0160	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0422	JB	0.0125	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0875	JBQ	0.0178	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0396	JBQ	0.00950	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.105	JB	0.0161	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.111	JBQ	0.0135	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0321	JBQ	0.0169	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0458	JBQ	0.00858	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0429	JBQ	0.00973	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0602	JB	0.00950	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0214	JQ	0.0144	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	0.362	JB	0.0363	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-088-SA5DN-SB-4.0-5.0      Collected: 5/20/2011 2:04:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.317	JBQ	0.0202	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0768	JB	0.00754	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0821	JB	0.0157	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0244	JB	0.0147	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0412	JBQ	0.0140	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0400	JBQ	0.0153	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0402	JB	0.0103	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0400	JBQ	0.0146	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0508	JBQ	0.0127	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0176	JB	0.0172	MDL	5.90	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0381	JB	0.00837	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0431	JBQ	0.00837	MDL	5.90	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0710	JBQ	0.00897	MDL	5.90	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0199	JBQ	0.0154	MDL	1.18	PQL	ng/Kg	U	B
OCDD	2.39	JB	0.0206	MDL	11.8	PQL	ng/Kg	U	B
OCDF	0.198	JBQ	0.0410	MDL	11.8	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX086

EDD Filename: DX086\_v1

Laboratory: LL

eQAPP Name: CDM\_SSFL\_110509

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
	Duplicate Sample Count = 0
	Duplicate Sample Count > 1
	Illogical Fraction
	Laboratory Control Sample Count = 0
	Laboratory Control Sample Count > 1
	Matrix Spike Sample Count = 0
	Matrix Spike Sample Count > 1
	Method Blank Sample Count = 0
	Method Blank Sample Count > 1
	Percent Moisture
	Sampling to Leaching Estimation
	Sampling to Leaching Rejection
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Continuing Calibration Verification Percent Recovery Lower Estimation
C	Continuing Calibration Verification Percent Recovery Lower Rejection
C	Continuing Calibration Verification Percent Recovery Upper Estimation
C	Continuing Calibration Verification Percent Recovery Upper Rejection
C	Continuing Calibration Verification Relative Response Factor
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Relative Response Factor
C	Initial Calibration Verification Correlation Coefficient

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

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

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## **Enclosure I**

### **EPA Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DX086

# Method Blank Outlier Report

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: PrepDX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1530B370231	6/5/2011 2:31:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.270 ng/Kg 0.178 ng/Kg 0.137 ng/Kg 0.0425 ng/Kg 0.0952 ng/Kg 0.0671 ng/Kg 0.0873 ng/Kg 0.0834 ng/Kg 0.0864 ng/Kg 0.0737 ng/Kg 0.0439 ng/Kg 0.0909 ng/Kg 0.120 ng/Kg 0.0252 ng/Kg 0.693 ng/Kg 0.420 ng/Kg	SL-041-SA5DN-SS-0.0-0.5 SL-042-SA5DN-SS-0.0-0.5 SL-043-SA5DN-SS-0.0-0.5 SL-044-SA5DN-SS-0.0-0.5 SL-045-SA5DN-SS-0.0-0.5 SL-046-SA5DN-SS-0.0-0.5 SL-047-SA5DN-SS-0.0-0.5 SL-064-SA5DN-SB-4.0-5.0 SL-086-SA5DN-SB-4.0-5.0 SL-088-SA5DN-SB-4.0-5.0
BLK1600B371450	6/13/2011 2:50:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDF OCDD OCDF	0.233 ng/Kg 0.124 ng/Kg 0.0756 ng/Kg 0.0355 ng/Kg 0.0287 ng/Kg 0.0363 ng/Kg 0.0252 ng/Kg 0.0402 ng/Kg 0.0730 ng/Kg 0.0141 ng/Kg 0.0432 ng/Kg 0.0597 ng/Kg 0.0599 ng/Kg 0.0157 ng/Kg 0.463 ng/Kg 0.300 ng/Kg	DUP-04-SA5DN-QC-051911 SL-040-SA5DN-SS-0.0-0.5 SL-051-SA5DN-SS-0.0-0.5
BLK1660B372012	6/16/2011 8:12:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.285 ng/Kg 0.0763 ng/Kg 0.0700 ng/Kg 0.0238 ng/Kg 0.0395 ng/Kg 0.0351 ng/Kg 0.0359 ng/Kg 0.0637 ng/Kg 0.0521 ng/Kg 0.0291 ng/Kg 0.0327 ng/Kg 0.0320 ng/Kg 0.0458 ng/Kg 0.0160 ng/Kg 0.624 ng/Kg 0.257 ng/Kg	SL-048-SA5DN-SS-0.0-0.5 SL-049-SA5DN-SS-0.0-0.5 SL-050-SA5DN-SS-0.0-0.5 SL-065-SA5DN-SB-4.0-5.0 SL-065-SA5DN-SB-7.0-8.0
BLK1660B372236	6/18/2011 10:36:00 PM	2,3,7,8-TCDF	0.0242 ng/Kg	SL-048-SA5DN-SS-0.0-0.5 SL-049-SA5DN-SS-0.0-0.5 SL-050-SA5DN-SS-0.0-0.5 SL-065-SA5DN-SB-4.0-5.0 SL-065-SA5DN-SB-7.0-8.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP-04-SA5DN-QC-051911(RES)	1,2,3,4,7,8,9-HPCDF	0.371 ng/Kg	0.371U ng/Kg
DUP-04-SA5DN-QC-051911(RES)	1,2,3,7,8-PECDF	0.107 ng/Kg	0.107U ng/Kg
DUP-04-SA5DN-QC-051911(RES)	2,3,4,7,8-PECDF	0.214 ng/Kg	0.214U ng/Kg
SL-040-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0893 ng/Kg	0.0893U ng/Kg
SL-040-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.264 ng/Kg	0.264U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: PrepDX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-040-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.239 ng/Kg	0.239U ng/Kg
SL-041-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.377 ng/Kg	0.377U ng/Kg
SL-041-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.347 ng/Kg	0.347U ng/Kg
SL-041-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.442 ng/Kg	0.442U ng/Kg
SL-041-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.560 ng/Kg	0.560U ng/Kg
SL-041-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0508 ng/Kg	0.0508U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.442 ng/Kg	0.442U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.424 ng/Kg	0.424U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.282 ng/Kg	0.282U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.285 ng/Kg	0.285U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.366 ng/Kg	0.366U ng/Kg
SL-042-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0895 ng/Kg	0.0895U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.407 ng/Kg	0.407U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.241 ng/Kg	0.241U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.420 ng/Kg	0.420U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.337 ng/Kg	0.337U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.333 ng/Kg	0.333U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.235 ng/Kg	0.235U ng/Kg
SL-043-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0353 ng/Kg	0.0353U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.229 ng/Kg	0.229U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.203 ng/Kg	0.203U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.193 ng/Kg	0.193U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.136 ng/Kg	0.136U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.137 ng/Kg	0.137U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.216 ng/Kg	0.216U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.447 ng/Kg	0.447U ng/Kg
SL-044-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0661 ng/Kg	0.0661U ng/Kg
SL-045-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.499 ng/Kg	0.499U ng/Kg
SL-045-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.352 ng/Kg	0.352U ng/Kg
SL-045-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.361 ng/Kg	0.361U ng/Kg
SL-045-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.458 ng/Kg	0.458U ng/Kg
SL-045-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0542 ng/Kg	0.0542U ng/Kg
SL-046-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.630 ng/Kg	0.630U ng/Kg
SL-046-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.406 ng/Kg	0.406U ng/Kg
SL-046-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.539 ng/Kg	0.539U ng/Kg
SL-047-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.434 ng/Kg	0.434U ng/Kg
SL-047-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.381 ng/Kg	0.381U ng/Kg
SL-047-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.404 ng/Kg	0.404U ng/Kg
SL-049-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0302 ng/Kg	0.0302U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: PrepDX086\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B  
Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-051-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.245 ng/Kg	0.245U ng/Kg
SL-051-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.215 ng/Kg	0.215U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.504 ng/Kg	0.504U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.249 ng/Kg	0.249U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0939 ng/Kg	0.0939U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0620 ng/Kg	0.0620U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.115 ng/Kg	0.115U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0937 ng/Kg	0.0937U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.119 ng/Kg	0.119U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.168 ng/Kg	0.168U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0716 ng/Kg	0.0716U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0909 ng/Kg	0.0909U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0984 ng/Kg	0.0984U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0298 ng/Kg	0.0298U ng/Kg
SL-064-SA5DN-SB-4.0-5.0(RES)	OCDF	0.391 ng/Kg	0.391U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.543 ng/Kg	0.543U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0364 ng/Kg	0.0364U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.209 ng/Kg	0.209U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0548 ng/Kg	0.0548U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0461 ng/Kg	0.0461U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0571 ng/Kg	0.0571U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	OCDD	1.52 ng/Kg	1.52U ng/Kg
SL-065-SA5DN-SB-4.0-5.0(RES)	OCDF	0.255 ng/Kg	0.255U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.372 ng/Kg	0.372U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0291 ng/Kg	0.0291U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0471 ng/Kg	0.0471U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0138 ng/Kg	0.0138U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0408 ng/Kg	0.0408U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDF	0.0165 ng/Kg	0.0165U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDD	0.0629 ng/Kg	0.0629U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0187 ng/Kg	0.0187U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	OCDD	0.738 ng/Kg	0.738U ng/Kg
SL-065-SA5DN-SB-7.0-8.0(RES)	OCDF	0.133 ng/Kg	0.133U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: PrepDX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.00 ng/Kg	1.00U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.174 ng/Kg	0.174U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0688 ng/Kg	0.0688U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0339 ng/Kg	0.0339U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0875 ng/Kg	0.0875U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0396 ng/Kg	0.0396U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.105 ng/Kg	0.105U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.111 ng/Kg	0.111U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0321 ng/Kg	0.0321U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0458 ng/Kg	0.0458U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0429 ng/Kg	0.0429U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0602 ng/Kg	0.0602U ng/Kg
SL-086-SA5DN-SB-4.0-5.0(RES)	OCDF	0.362 ng/Kg	0.362U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.317 ng/Kg	0.317U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0768 ng/Kg	0.0768U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0821 ng/Kg	0.0821U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0244 ng/Kg	0.0244U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0412 ng/Kg	0.0412U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0400 ng/Kg	0.0400U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0402 ng/Kg	0.0402U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0400 ng/Kg	0.0400U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0508 ng/Kg	0.0508U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0176 ng/Kg	0.0176U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0431 ng/Kg	0.0431U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0710 ng/Kg	0.0710U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0199 ng/Kg	0.0199U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	OCDD	2.39 ng/Kg	2.39U ng/Kg
SL-088-SA5DN-SB-4.0-5.0(RES)	OCDF	0.198 ng/Kg	0.198U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-043-SA5DN-SS-0.0-0.5MS SL-043-SA5DN-SS-0.0-0.5MSD (SL-043-SA5DN-SS-0.0-0.5)	OCDD	-46	25	40.00-135.00	-	OCDD	No Qual, >4x

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-043-SA5DN-SS-0.0-0.5	DUP-04-SA5DN-QC-051911			
MOISTURE	13.3	14.3	7		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag	
	SL-043-SA5DN-SS-0.0-0.5	DUP-04-SA5DN-QC-051911				
1,2,3,4,6,7,8-HPCDD	68.7	69.9	2	50.00	No Qualifiers Applied	
1,2,3,4,6,7,8-HPCDF	4.81	4.79	0	50.00		
1,2,3,4,7,8,9-HPCDF	0.407	0.371	9	50.00		
1,2,3,4,7,8-HxCDD	0.580	0.614	6	50.00		
1,2,3,4,7,8-HXCDF	0.522	0.639	20	50.00		
1,2,3,6,7,8-HxCDD	1.77	1.79	1	50.00		
1,2,3,6,7,8-HXCDF	0.241	0.235	3	50.00		
1,2,3,7,8,9-HxCDD	1.49	1.41	6	50.00		
1,2,3,7,8,9-HXCDF	0.420	0.393	7	50.00		
1,2,3,7,8-PECDD	0.337	0.320	5	50.00		
1,2,3,7,8-PECDF	0.106	0.107	1	50.00		
2,3,4,6,7,8-HXCDF	0.333	0.307	8	50.00		
2,3,4,7,8-PECDF	0.235	0.214	9	50.00		
2,3,7,8-TCDD	0.0353	0.0532	40	50.00		
OCDD	947	1010	6	50.00		
OCDF	13.1	13.1	0	50.00		
2,3,7,8-TCDF	0.196	1.15 U	200	50.00		J(all detects) UJ(all non-detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF	B	1.32	1.09	PQL	ng/Kg	
DUP-04-SA5DN-QC-051911	1,2,3,4,6,7,8-HPCDF	JB	4.79	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HPCDF	JB	0.371	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.614	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.639	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.79	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.235	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.41	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.393	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.320	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.107	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.307	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.214	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0532	1.15	PQL	ng/Kg	
SL-040-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.662	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.648	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.149	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.93	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.258	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.88	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.459	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.197	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0893	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.264	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.239	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0210	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.208	1.16	PQL	ng/Kg	
SL-041-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.878	5.83	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.996	5.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.651	5.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.377	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.77	5.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.660	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.347	5.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.243	5.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.442	5.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.560	5.83	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0508	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.375	1.17	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-042-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.65	9.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.442	9.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.567	9.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.424	9.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.12	9.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.282	9.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.47	9.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.625	9.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.428	9.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.293	9.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.285	9.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.366	9.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0895	1.84	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.227	1.84	PQL	ng/Kg	
	OCDF	JB	11.8	18.4	PQL	ng/Kg	
SL-043-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.81	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.407	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.580	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.522	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.77	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.241	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.49	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.420	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.337	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.106	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.333	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.235	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0353	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.196	1.13	PQL	ng/Kg	
	SL-044-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.30	5.56	PQL	
1,2,3,4,7,8,9-HPCDF		JBQ	0.229	5.56	PQL	ng/Kg	
1,2,3,4,7,8-HxCDD		JBQ	0.203	5.56	PQL	ng/Kg	
1,2,3,4,7,8-HXCDF		JB	0.599	5.56	PQL	ng/Kg	
1,2,3,6,7,8-HXCDD		JB	0.853	5.56	PQL	ng/Kg	
1,2,3,6,7,8-HXCDF		JBQ	0.193	5.56	PQL	ng/Kg	
1,2,3,7,8,9-HXCDD		JBQ	0.664	5.56	PQL	ng/Kg	
1,2,3,7,8,9-HXCDF		JB	0.437	5.56	PQL	ng/Kg	
1,2,3,7,8-PECDD		JBQ	0.136	5.56	PQL	ng/Kg	
1,2,3,7,8-PECDF		JB	0.137	5.56	PQL	ng/Kg	
2,3,4,6,7,8-HXCDF		JB	0.216	5.56	PQL	ng/Kg	
2,3,4,7,8-PECDF		JBQ	0.447	5.56	PQL	ng/Kg	
2,3,7,8-TCDD		JB	0.0661	1.11	PQL	ng/Kg	
2,3,7,8-TCDF		J	0.168	1.11	PQL	ng/Kg	
OCDF		JB	6.46	11.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-045-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.51	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.499	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.619	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.556	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.26	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.352	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.59	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.719	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.401	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.471	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.361	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.458	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0542	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.317	1.15	PQL	ng/Kg	
SL-046-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.630	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.886	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.518	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	3.24	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.406	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.29	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.721	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.563	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.223	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.529	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.539	5.61	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.150	1.12	PQL	ng/Kg	
2,3,7,8-TCDF	JQ	0.347	1.12	PQL	ng/Kg		
SL-047-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.434	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.18	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.587	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	4.03	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.381	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.63	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.442	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.745	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.299	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.494	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.404	5.39	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.155	1.08	PQL	ng/Kg	
SL-048-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.98	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.68	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.75	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.09	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.714	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.38	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.35	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.39	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.02	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.164	1.07	PQL	ng/Kg	
2,3,7,8-TCDF	J	0.698	1.07	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.08	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.408	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.724	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.759	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.51	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.557	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.23	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.29	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.478	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.01	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.433	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.801	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0302	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.842	1.09	PQL	ng/Kg	
	OCDF	JB	9.69	10.9	PQL	ng/Kg	
SL-050-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.29	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.21	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.20	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.41	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	5.08	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.03	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.33	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.356	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.17	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.08	5.46	PQL	ng/Kg	
2,3,7,8-TCDD	JB	0.122	1.09	PQL	ng/Kg		
SL-051-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.15	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.245	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.383	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.470	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.74	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.399	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.45	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.959	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.316	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.215	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.305	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.529	5.36	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.376	1.07	PQL	ng/Kg	
	OCDF	JB	5.76	10.7	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.504	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.249	5.74	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0939	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0620	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.115	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.115	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0937	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.119	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.168	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0716	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0909	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.118	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0984	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0298	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0161	1.15	PQL	ng/Kg	
	OCDD	JB	4.59	11.5	PQL	ng/Kg	
	OCDF	JB	0.391	11.5	PQL	ng/Kg	
SL-065-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.543	5.62	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0447	5.62	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0364	5.62	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.108	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.209	5.62	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.231	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0548	5.62	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0461	5.62	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0571	5.62	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0201	1.12	PQL	ng/Kg	
	OCDD	JB	1.52	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.255	11.2	PQL	ng/Kg	
SL-065-SA5DN-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.372	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0291	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0471	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0138	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0408	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0165	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0629	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.0522	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0187	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0430	5.52	PQL	ng/Kg	
	OCDD	JB	0.738	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.133	11.0	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX086

Laboratory: LL

EDD Filename: DX086\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.00	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.174	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0688	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0339	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0422	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0875	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0396	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.105	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.111	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0321	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0458	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0429	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0602	5.59	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0214	1.12	PQL	ng/Kg	
	OCDF	JB	0.362	11.2	PQL	ng/Kg	
SL-088-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.317	5.90	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0768	5.90	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0821	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0244	5.90	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0412	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0400	5.90	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0402	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0400	5.90	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0508	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0176	5.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0381	5.90	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0431	5.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0710	5.90	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0199	1.18	PQL	ng/Kg	
	OCDD	JB	2.39	11.8	PQL	ng/Kg	
OCDF	JBQ	0.198	11.8	PQL	ng/Kg		

LDC #: 256031A

VALIDATION FINDINGS WORKSHEET

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

Compound Quantitation and Reported CRQLs

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?  
Y N N/A Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

#	Date	Sample ID	Finding	Associated Samples	Qualifications
		SL-041-SASDN-SS0.00.5	OCDD > cal range		5/P
		SL-048-SASDN-SS0.0-0.5			



# **SAMPLE DELIVERY GROUP**

**DX088**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-May-2011	SL-018-SA5DN-SS-0.0-0.5	6297587	N	METHOD	1613B	III
23-May-2011	SL-014-SA5DN-SS-0.0-0.5	6297586	N	METHOD	1613B	III
23-May-2011	SL-013-SA5DN-SS-0.0-0.5	6297585	N	METHOD	1613B	III
23-May-2011	SL-012-SA5DN-SS-0.0-0.5	6297584	N	METHOD	1613B	III
23-May-2011	SL-011-SA5DN-SS-0.0-0.5	6297583	N	METHOD	1613B	III
23-May-2011	SL-010-SA5DN-SS-0.0-0.5	6297582	N	METHOD	1613B	III
23-May-2011	SL-008-SA5DN-SS-0.0-0.5	6297580	N	METHOD	1613B	III
23-May-2011	SL-009-SA5DN-SS-0.0-0.5	6297581	N	METHOD	1613B	III
24-May-2011	SL-198-SA5DN-SS-0.0-0.5	6297599	N	METHOD	1613B	III
24-May-2011	SL-196-SA5DN-SS-0.0-0.5	6297597	N	METHOD	1613B	III
24-May-2011	SL-197-SA5DN-SS-0.0-0.5	6297598	N	METHOD	1613B	III
24-May-2011	SL-195-SA5DN-SS-0.0-0.5	6297596	N	METHOD	1613B	III
24-May-2011	SL-191-SA5DN-SS-0.0-0.5	6297592	N	METHOD	1613B	III
24-May-2011	SL-192-SA5DN-SS-0.0-0.5	6297593	N	METHOD	1613B	III
24-May-2011	SL-189-SA5DN-SS-0.0-0.5	6297591	N	METHOD	1613B	III
24-May-2011	SL-193-SA5DN-SS-0.0-0.5	6297594	N	METHOD	1613B	III
24-May-2011	SL-194-SA5DN-SS-0.0-0.5	6297595	N	METHOD	1613B	III
24-May-2011	SL-188-SA5DN-SS-0.0-0.5	6297590	N	METHOD	1613B	III
24-May-2011	SL-186-SA5DN-SS-0.0-0.5	6297588	N	METHOD	1613B	III
24-May-2011	SL-187-SA5DN-SS-0.0-0.5	6297589	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	1613B		

Sample ID: SL-008-SA5DN-SS-0.0-0.5

Collected: 5/23/2011 5:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.43	JB	0.0295	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.269	JB	0.0357	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.323	JB	0.0842	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.08	JB	0.0800	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.14	JB	0.0867	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.488	JB	0.0778	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.840	JB	0.0819	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.353	JBQ	0.0903	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.275	JB	0.0474	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.27	JB	0.0837	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.403	JB	0.0764	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.06	JB	0.0815	MDL	5.41	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.103	J	0.0214	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	6.80	JB	0.0376	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-009-SA5DN-SS-0.0-0.5

Collected: 5/23/2011 5:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.546	JB	0.0378	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.815	JB	0.0411	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.979	JB	0.0368	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.71	JB	0.0438	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.681	JB	0.0343	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.43	JB	0.0418	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.448	JB	0.0401	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.519	JB	0.0380	MDL	6.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.24	JB	0.0396	MDL	6.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.711	JB	0.0342	MDL	6.52	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.933	JB	0.0364	MDL	6.52	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.139	JBQ	0.0221	MDL	1.30	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.504	J	0.0888	MDL	1.30	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-010-SA5DN-SS-0.0-0.5      Collected: 5/23/2011 4:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.15	JB	0.0326	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.653	JB	0.0193	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0790	JB	0.0290	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.103	JBQ	0.0251	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0716	JBQ	0.0201	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.194	JB	0.0269	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0747	JB	0.0183	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.155	JB	0.0251	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0583	JB	0.0212	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0799	JBQ	0.0222	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.111	JB	0.0182	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.114	JB	0.0193	MDL	5.05	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.147	JB	0.0182	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0282	JB	0.0200	MDL	1.01	PQL	ng/Kg	U	B
OCDF	1.33	JB	0.0319	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-011-SA5DN-SS-0.0-0.5      Collected: 5/23/2011 4:22:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.13	JB	0.0186	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.230	JBQ	0.0234	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.270	JB	0.0291	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.363	JBQ	0.0265	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.437	JB	0.0303	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.279	JB	0.0247	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.484	JB	0.0294	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.289	JB	0.0274	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.157	JB	0.0267	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.56	JB	0.0300	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.236	JBQ	0.0252	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.425	JBQ	0.0284	MDL	5.60	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0241	JBQ	0.0186	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.350	J	0.0658	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	4.25	JB	0.0340	MDL	11.2	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-012-SA5DN-SS-0.0-0.5

Collected: 5/23/2011 3:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.44	JB	0.0282	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.351	JB	0.0345	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.161	JB	0.0394	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.472	JB	0.0280	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.915	JB	0.0420	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.376	JB	0.0272	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.617	JB	0.0394	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.512	JBQ	0.0306	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.152	JB	0.0293	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.440	JB	0.0231	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.272	JB	0.0278	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.402	JB	0.0227	MDL	5.52	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0366	JBQ	0.0206	MDL	1.10	PQL	ng/Kg	U	B
OCDF	7.74	JB	0.0360	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-013-SA5DN-SS-0.0-0.5

Collected: 5/23/2011 3:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.75	JB	0.0222	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.118	JBQ	0.0286	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.238	JBQ	0.0348	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.190	JBQ	0.0279	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.657	JB	0.0377	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.196	JB	0.0253	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.418	JBQ	0.0366	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.180	JB	0.0304	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.207	JBQ	0.0275	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.257	JB	0.0277	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.240	JB	0.0263	MDL	5.04	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.478	JB	0.0275	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0755	JBQ	0.0221	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.197	J	0.0433	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	4.42	JB	0.0405	MDL	10.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-014-SA5DN-SS-0.0-0.5

Collected: 5/23/2011 2:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.29	JB	0.0239	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0858	JBQ	0.0312	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.165	JB	0.0343	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.87	JB	0.0415	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.500	JB	0.0357	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.363	JBQ	0.0412	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.482	JB	0.0344	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.425	JB	0.0431	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.125	JBQ	0.0346	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.10	JB	0.0447	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.212	JB	0.0362	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.428	JB	0.0423	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0300	JBQ	0.0223	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.515	J	0.0652	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	2.87	JB	0.0364	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-018-SA5DN-SS-0.0-0.5

Collected: 5/23/2011 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.23	JB	0.0345	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.743	JB	0.0415	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.542	JB	0.0431	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.34	JB	0.0474	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.47	JB	0.0502	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.44	JB	0.0454	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.33	JB	0.0557	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.560	JB	0.0642	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.969	JB	0.0470	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.84	JB	0.0741	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.290	JBQ	0.0291	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	6.72	JB	0.0430	MDL	10.8	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-186-SA5DN-SS-0.0-0.5      Collected: 5/24/2011 2:48:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.13	JB	0.0250	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.373	JB	0.0359	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.286	JB	0.0315	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.36	JB	0.0345	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.09	JB	0.0325	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.500	JB	0.0313	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.654	JB	0.0315	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.377	JB	0.0399	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.323	JBQ	0.0376	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.87	JB	0.0411	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.372	JB	0.0333	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.695	JB	0.0422	MDL	5.71	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0613	JB	0.0229	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.672	J	0.0920	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	9.12	JB	0.0422	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SL-187-SA5DN-SS-0.0-0.5      Collected: 5/24/2011 3:08:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.665	JB	0.0417	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.760	JB	0.0492	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.716	JBQ	0.0385	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.39	JB	0.0511	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.792	JB	0.0375	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.43	JB	0.0480	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.667	JB	0.0421	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.590	JB	0.0536	MDL	6.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.75	JB	0.0508	MDL	6.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.583	JB	0.0384	MDL	6.20	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.12	JB	0.0514	MDL	6.20	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0507	JBQ	0.0287	MDL	1.24	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.745	J	0.101	MDL	1.24	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-188-SA5DN-SS-0.0-0.5

Collected: 5/24/2011 2:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.49	JB	0.0452	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.20	JB	0.0211	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.135	JBQ	0.0455	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.148	JBQ	0.0362	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.143	JBQ	0.0400	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.583	JB	0.0398	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.233	JB	0.0327	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.630	JB	0.0375	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.604	JB	0.0507	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.155	JBQ	0.0406	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.993	JB	0.0410	MDL	5.70	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.231	JB	0.0399	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.502	JB	0.0444	MDL	5.70	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.401	J	0.0829	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	2.57	JB	0.0704	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SL-189-SA5DN-SS-0.0-0.5

Collected: 5/24/2011 11:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.53	JB	0.0467	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.10	JBQ	0.0310	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0475	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.117	JB	0.0400	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.09	JB	0.0726	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.248	JB	0.0432	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.208	JBQ	0.0562	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.318	JB	0.0358	MDL	5.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.234	JB	0.0535	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JBQ	0.0421	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.709	JB	0.0465	MDL	5.86	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.263	JB	0.0361	MDL	5.86	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.461	JB	0.0481	MDL	5.86	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.695	J	0.107	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	2.23	JBQ	0.0843	MDL	11.7	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B
		<b>Matrix:</b>	SO

Sample ID: SL-191-SA5DN-SS-0.0-0.5      Collected: 5/24/2011 10:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.82	JB	0.0864	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.946	JB	0.0794	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.19	JB	0.138	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	4.40	JB	0.0870	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.20	JBQ	0.121	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.35	JB	0.0684	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.459	JB	0.0807	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.584	JBQ	0.0725	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.288	JBQ	0.0543	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.34	JB	0.0603	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.774	JBQ	0.0612	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0744	JBQ	0.0361	MDL	1.09	PQL	ng/Kg	U	B

Sample ID: SL-192-SA5DN-SS-0.0-0.5      Collected: 5/24/2011 11:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.80	JB	0.0288	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.263	JBQ	0.0339	MDL	6.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.318	J	0.0674	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.693	JB	0.0498	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.00	JB	0.0696	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.289	JB	0.0459	MDL	6.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.714	JB	0.0638	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.426	JB	0.0453	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.274	JB	0.0450	MDL	6.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.238	JBQ	0.0317	MDL	6.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.352	JB	0.0428	MDL	6.11	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.470	JBQ	0.0301	MDL	6.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.281	JBQ	0.0775	MDL	1.22	PQL	ng/Kg	J	Z
OCDF	6.14	JB	0.0406	MDL	12.2	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-193-SA5DN-SS-0.0-0.5      Collected: 5/24/2011 1:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.944	JB	0.0613	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.551	JBQ	0.0562	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.39	JB	0.0841	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.40	JB	0.0601	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.704	JBQ	0.0655	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.29	JB	0.0537	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.386	JB	0.0588	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.346	JB	0.0438	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.829	JB	0.0429	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.948	JB	0.0422	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.01	JB	0.0506	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0316	JB	0.0272	MDL	1.07	PQL	ng/Kg	U	B

Sample ID: SL-194-SA5DN-SS-0.0-0.5      Collected: 5/24/2011 2:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.49	JB	0.0241	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.136	JBQ	0.0462	MDL	6.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.181	JB	0.0415	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.592	JB	0.0353	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.781	JB	0.0440	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.294	JBQ	0.0297	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.699	JB	0.0432	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.599	JBQ	0.0404	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.182	JB	0.0388	MDL	6.19	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.451	JBQ	0.0331	MDL	6.19	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.262	JB	0.0320	MDL	6.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.389	JB	0.0348	MDL	6.19	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0398	JBQ	0.0258	MDL	1.24	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.302	JQ	0.0747	MDL	1.24	PQL	ng/Kg	J	Z
OCDF	3.01	JBQ	0.0522	MDL	12.4	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-195-SA5DN-SS-0.0-0.5      Collected: 5/24/2011 9:44:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.97	JBQ	0.0933	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.14	JB	0.109	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.04	JB	0.119	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.68	JB	0.105	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	4.72	JB	0.110	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.745	JB	0.112	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.07	JB	0.0971	MDL	6.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.98	JB	0.0869	MDL	6.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.33	JB	0.0928	MDL	6.23	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.80	JB	0.0879	MDL	6.23	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.124	JB	0.0444	MDL	1.25	PQL	ng/Kg	J	Z

Sample ID: SL-196-SA5DN-SS-0.0-0.5      Collected: 5/24/2011 9:05:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.52	JB	0.0786	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.330	JB	0.0912	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.261	J	0.0590	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.572	JB	0.0445	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.04	JB	0.0611	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.256	JB	0.0421	MDL	5.74	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.938	JB	0.0576	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.791	JB	0.0415	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.202	JBQ	0.0375	MDL	5.74	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.357	JB	0.0343	MDL	5.74	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.350	JB	0.0415	MDL	5.74	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.459	JB	0.0326	MDL	5.74	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0330	J	0.0172	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.338	JB	0.0738	MDL	1.15	PQL	ng/Kg	J	Z
OCDF	10.5	JB	0.0395	MDL	11.5	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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<i>Sample ID:</i> SL-197-SA5DN-SS-0.0-0.5	<i>Collected:</i> 5/24/2011 9:20:00			<i>Analysis Type:</i> RES			<i>Dilution:</i> 1		
<b>Analyte</b>	<b>Lab Result</b>	<b>Lab Qual</b>	<b>DL</b>	<b>DL Type</b>	<b>RL</b>	<b>RL Type</b>	<b>Units</b>	<b>Data Review Qual</b>	<b>Reason Code</b>
1,2,3,4,6,7,8-HPCDF	5.59	JB	0.0369	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.442	JBQ	0.0531	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.425	JB	0.0631	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.11	JB	0.0564	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.74	JB	0.0667	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.483	JB	0.0466	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.53	JB	0.0593	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.845	JB	0.0527	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.377	JB	0.0492	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.704	JB	0.0404	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.551	JB	0.0404	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.494	JB	0.0427	MDL	5.75	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0743	JBQ	0.0258	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.455	J	0.0852	MDL	1.15	PQL	ng/Kg	J	Z

<i>Sample ID:</i> SL-198-SA5DN-SS-0.0-0.5	<i>Collected:</i> 5/24/2011 8:40:00			<i>Analysis Type:</i> RES			<i>Dilution:</i> 1		
<b>Analyte</b>	<b>Lab Result</b>	<b>Lab Qual</b>	<b>DL</b>	<b>DL Type</b>	<b>RL</b>	<b>RL Type</b>	<b>Units</b>	<b>Data Review Qual</b>	<b>Reason Code</b>
1,2,3,4,7,8,9-HPCDF	3.64	JB	0.0830	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.10	J	0.0900	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.98	JB	0.0697	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.662	JB	0.0727	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.06	JB	0.0621	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.07	JB	0.0643	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.81	JB	0.0686	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.73	JB	0.0604	MDL	5.48	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

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

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## **Enclosure I**

### **EPA Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DX088

# Method Blank Outlier Report

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: PrepDX088\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1570B371950	6/9/2011 7:50:00 PM	2,3,7,8-TCDF	0.0363 ng/Kg	SL-009-SA5DN-SS-0.0-0.5 SL-010-SA5DN-SS-0.0-0.5 SL-011-SA5DN-SS-0.0-0.5 SL-012-SA5DN-SS-0.0-0.5 SL-013-SA5DN-SS-0.0-0.5 SL-014-SA5DN-SS-0.0-0.5 SL-018-SA5DN-SS-0.0-0.5 SL-186-SA5DN-SS-0.0-0.5 SL-187-SA5DN-SS-0.0-0.5 SL-188-SA5DN-SS-0.0-0.5 SL-189-SA5DN-SS-0.0-0.5 SL-191-SA5DN-SS-0.0-0.5 SL-193-SA5DN-SS-0.0-0.5 SL-194-SA5DN-SS-0.0-0.5 SL-195-SA5DN-SS-0.0-0.5 SL-197-SA5DN-SS-0.0-0.5
BLK1570B372337	6/7/2011 11:37:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.217 ng/Kg 0.133 ng/Kg 0.0524 ng/Kg 0.0257 ng/Kg 0.0606 ng/Kg 0.0444 ng/Kg 0.0517 ng/Kg 0.0357 ng/Kg 0.0639 ng/Kg 0.0300 ng/Kg 0.0384 ng/Kg 0.0718 ng/Kg 0.0573 ng/Kg 0.0234 ng/Kg 0.526 ng/Kg 0.247 ng/Kg	SL-009-SA5DN-SS-0.0-0.5 SL-010-SA5DN-SS-0.0-0.5 SL-011-SA5DN-SS-0.0-0.5 SL-012-SA5DN-SS-0.0-0.5 SL-013-SA5DN-SS-0.0-0.5 SL-014-SA5DN-SS-0.0-0.5 SL-018-SA5DN-SS-0.0-0.5 SL-186-SA5DN-SS-0.0-0.5 SL-187-SA5DN-SS-0.0-0.5 SL-188-SA5DN-SS-0.0-0.5 SL-189-SA5DN-SS-0.0-0.5 SL-191-SA5DN-SS-0.0-0.5 SL-193-SA5DN-SS-0.0-0.5 SL-194-SA5DN-SS-0.0-0.5 SL-195-SA5DN-SS-0.0-0.5 SL-197-SA5DN-SS-0.0-0.5
BLK1580B371521	6/14/2011 3:21:00 PM	2,3,7,8-TCDF	0.0250 ng/Kg	SL-008-SA5DN-SS-0.0-0.5
BLK1580B372016	6/9/2011 8:16:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDF OCDD OCDF	0.226 ng/Kg 0.122 ng/Kg 0.0726 ng/Kg 0.0241 ng/Kg 0.0553 ng/Kg 0.0485 ng/Kg 0.0467 ng/Kg 0.0535 ng/Kg 0.0693 ng/Kg 0.0396 ng/Kg 0.0353 ng/Kg 0.0579 ng/Kg 0.0728 ng/Kg 0.0170 ng/Kg 0.430 ng/Kg 0.206 ng/Kg	SL-008-SA5DN-SS-0.0-0.5
BLK1610B372012	6/15/2011 8:12:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDF OCDD OCDF	0.405 ng/Kg 0.294 ng/Kg 0.112 ng/Kg 0.0779 ng/Kg 0.0462 ng/Kg 0.0683 ng/Kg 0.0742 ng/Kg 0.0596 ng/Kg 0.0243 ng/Kg 0.0379 ng/Kg 0.101 ng/Kg 0.0757 ng/Kg 0.0158 ng/Kg 0.938 ng/Kg 0.377 ng/Kg	SL-192-SA5DN-SS-0.0-0.5 SL-196-SA5DN-SS-0.0-0.5 SL-198-SA5DN-SS-0.0-0.5
BLK1610B372025	6/18/2011 8:25:00 PM	2,3,7,8-TCDF	0.0540 ng/Kg	SL-192-SA5DN-SS-0.0-0.5 SL-196-SA5DN-SS-0.0-0.5 SL-198-SA5DN-SS-0.0-0.5

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

8/29/2011 10:50:39 AM

ADR version 1.4.0.111

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: PrepDX088\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-008-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.269 ng/Kg	0.269U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.653 ng/Kg	0.653U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0790 ng/Kg	0.0790U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0716 ng/Kg	0.0716U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.194 ng/Kg	0.194U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0747 ng/Kg	0.0747U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.155 ng/Kg	0.155U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0583 ng/Kg	0.0583U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0799 ng/Kg	0.0799U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.147 ng/Kg	0.147U ng/Kg
SL-010-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0282 ng/Kg	0.0282U ng/Kg
SL-011-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-011-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.289 ng/Kg	0.289U ng/Kg
SL-011-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.236 ng/Kg	0.236U ng/Kg
SL-011-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0241 ng/Kg	0.0241U ng/Kg
SL-012-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.272 ng/Kg	0.272U ng/Kg
SL-012-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0366 ng/Kg	0.0366U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.118 ng/Kg	0.118U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.240 ng/Kg	0.240U ng/Kg
SL-013-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0755 ng/Kg	0.0755U ng/Kg
SL-014-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0858 ng/Kg	0.0858U ng/Kg
SL-014-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.125 ng/Kg	0.125U ng/Kg
SL-014-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-014-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0300 ng/Kg	0.0300U ng/Kg
SL-186-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0613 ng/Kg	0.0613U ng/Kg
SL-187-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0507 ng/Kg	0.0507U ng/Kg
SL-188-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.135 ng/Kg	0.135U ng/Kg
SL-188-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.143 ng/Kg	0.143U ng/Kg
SL-188-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.233 ng/Kg	0.233U ng/Kg
SL-188-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-189-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-189-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.117 ng/Kg	0.117U ng/Kg
SL-189-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.208 ng/Kg	0.208U ng/Kg
SL-189-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.234 ng/Kg	0.234U ng/Kg

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

# Method Blank Outlier Report

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: PrepDX088\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-189-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.118 ng/Kg	0.118U ng/Kg
SL-189-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.263 ng/Kg	0.263U ng/Kg
SL-191-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0744 ng/Kg	0.0744U ng/Kg
SL-192-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.263 ng/Kg	0.263U ng/Kg
SL-192-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.289 ng/Kg	0.289U ng/Kg
SL-192-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.352 ng/Kg	0.352U ng/Kg
SL-193-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0316 ng/Kg	0.0316U ng/Kg
SL-194-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-194-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.262 ng/Kg	0.262U ng/Kg
SL-194-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0398 ng/Kg	0.0398U ng/Kg
SL-196-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.330 ng/Kg	0.330U ng/Kg
SL-196-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.256 ng/Kg	0.256U ng/Kg
SL-196-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.350 ng/Kg	0.350U ng/Kg
SL-197-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0743 ng/Kg	0.0743U ng/Kg

# Reporting Limit Outliers

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-008-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.43	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.269	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.323	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.08	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.14	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.488	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.840	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.353	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.275	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.27	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.403	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.06	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.103	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.644	1.08	PQL	ng/Kg	
	OCDF	JB	6.80	10.8	PQL	ng/Kg	
SL-009-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.546	6.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.815	6.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.979	6.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.71	6.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.681	6.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.43	6.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.448	6.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.519	6.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.24	6.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.711	6.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.933	6.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.139	1.30	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.504	1.30	PQL	ng/Kg	
SL-010-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.15	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.653	5.05	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0790	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.103	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0716	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.194	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0747	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.155	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0583	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0799	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.111	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.114	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.147	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0282	1.01	PQL	ng/Kg	
	OCDF	JB	1.33	10.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-011-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.13	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.230	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.270	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.363	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.437	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.279	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.484	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.289	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.157	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.56	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.236	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.425	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0241	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.350	1.12	PQL	ng/Kg	
	OCDF	JB	4.25	11.2	PQL	ng/Kg	
SL-012-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.44	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.351	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.161	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.472	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.915	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.376	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.617	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.512	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.152	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.440	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.272	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.402	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0366	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.105	1.10	PQL	ng/Kg	
	OCDF	JB	7.74	11.0	PQL	ng/Kg	
SL-013-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.75	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.118	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.238	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.190	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.657	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.196	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.418	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.180	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.207	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.257	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.240	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.478	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0755	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.197	1.01	PQL	ng/Kg	
	OCDF	JB	4.42	10.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.29	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0858	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.165	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.87	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.500	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.363	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.482	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.425	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.125	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.10	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.212	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.428	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0300	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.515	1.09	PQL	ng/Kg	
OCDF	JB	2.87	10.9	PQL	ng/Kg		
SL-018-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.23	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.743	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.542	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.34	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.47	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.44	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.33	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.560	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.969	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.84	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.290	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	1.04	1.08	PQL	ng/Kg	
OCDF	JB	6.72	10.8	PQL	ng/Kg		
SL-186-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.13	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.373	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.286	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.36	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.09	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.500	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.654	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.377	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.323	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.87	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.372	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.695	5.71	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0613	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.672	1.14	PQL	ng/Kg	
OCDF	JB	9.12	11.4	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-187-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.665	6.20	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.760	6.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.716	6.20	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.39	6.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.792	6.20	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.43	6.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.667	6.20	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.590	6.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.75	6.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.583	6.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.12	6.20	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0507	1.24	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.745	1.24	PQL	ng/Kg	
	SL-188-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.49	5.70	PQL	
1,2,3,4,6,7,8-HPCDF		JB	1.20	5.70	PQL	ng/Kg	
1,2,3,4,7,8,9-HPCDF		JBQ	0.135	5.70	PQL	ng/Kg	
1,2,3,4,7,8-HxCDD		JBQ	0.148	5.70	PQL	ng/Kg	
1,2,3,4,7,8-HXCDF		JBQ	0.143	5.70	PQL	ng/Kg	
1,2,3,6,7,8-HxCDD		JB	0.583	5.70	PQL	ng/Kg	
1,2,3,6,7,8-HXCDF		JB	0.233	5.70	PQL	ng/Kg	
1,2,3,7,8,9-HxCDD		JB	0.630	5.70	PQL	ng/Kg	
1,2,3,7,8,9-HXCDF		JB	0.604	5.70	PQL	ng/Kg	
1,2,3,7,8-PECDD		JBQ	0.155	5.70	PQL	ng/Kg	
1,2,3,7,8-PECDF		JB	0.993	5.70	PQL	ng/Kg	
2,3,4,6,7,8-HXCDF		JB	0.231	5.70	PQL	ng/Kg	
2,3,4,7,8-PECDF		JB	0.502	5.70	PQL	ng/Kg	
2,3,7,8-TCDF		J	0.401	1.14	PQL	ng/Kg	
OCDF	JB	2.57	11.4	PQL	ng/Kg		
SL-189-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.53	5.86	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	1.10	5.86	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.121	5.86	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.117	5.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.09	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.248	5.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.208	5.86	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.318	5.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.234	5.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.118	5.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.709	5.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.263	5.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.461	5.86	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.695	1.17	PQL	ng/Kg	
OCDF	JBQ	2.23	11.7	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-191-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.82	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.946	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.19	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	4.40	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	1.20	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.35	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.459	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.584	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.288	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.34	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.774	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0744	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.579	1.09	PQL	ng/Kg	
	SL-192-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.80	6.11	PQL	
1,2,3,4,7,8,9-HPCDF		JBQ	0.263	6.11	PQL	ng/Kg	
1,2,3,4,7,8-HxCDD		J	0.318	6.11	PQL	ng/Kg	
1,2,3,4,7,8-HXCDF		JB	0.693	6.11	PQL	ng/Kg	
1,2,3,6,7,8-HxCDD		JB	1.00	6.11	PQL	ng/Kg	
1,2,3,6,7,8-HXCDF		JB	0.289	6.11	PQL	ng/Kg	
1,2,3,7,8,9-HxCDD		JB	0.714	6.11	PQL	ng/Kg	
1,2,3,7,8,9-HXCDF		JB	0.426	6.11	PQL	ng/Kg	
1,2,3,7,8-PECDD		JB	0.274	6.11	PQL	ng/Kg	
1,2,3,7,8-PECDF		JBQ	0.238	6.11	PQL	ng/Kg	
2,3,4,6,7,8-HXCDF		JB	0.352	6.11	PQL	ng/Kg	
2,3,4,7,8-PECDF		JBQ	0.470	6.11	PQL	ng/Kg	
2,3,7,8-TCDF		JBQ	0.281	1.22	PQL	ng/Kg	
OCDF		JB	6.14	12.2	PQL	ng/Kg	
SL-193-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.944	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.551	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.39	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.40	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.704	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.29	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.386	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.346	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.829	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.948	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.01	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0316	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.507	1.07	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-194-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.49	6.19	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.136	6.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.181	6.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.592	6.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.781	6.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.294	6.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.699	6.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.599	6.19	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.182	6.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.451	6.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.262	6.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.389	6.19	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0398	1.24	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.302	1.24	PQL	ng/Kg	
	OCDF	JBQ	3.01	12.4	PQL	ng/Kg	
SL-195-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	2.97	6.23	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.14	6.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.04	6.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.68	6.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.72	6.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.745	6.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.07	6.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	3.98	6.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.33	6.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.80	6.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.124	1.25	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	1.03	1.25	PQL	ng/Kg	
SL-196-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.52	5.74	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.330	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.261	5.74	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.572	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.04	5.74	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.256	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.938	5.74	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.791	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.202	5.74	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.357	5.74	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.350	5.74	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.459	5.74	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0330	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.338	1.15	PQL	ng/Kg	
	OCDF	JB	10.5	11.5	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX088

Laboratory: LL

EDD Filename: DX088\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-197-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.59	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.442	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.425	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.11	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.74	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.483	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.53	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.845	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.377	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.704	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.551	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.494	5.75	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0743	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.455	1.15	PQL	ng/Kg	
SL-198-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.64	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	3.10	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.98	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.662	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.06	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.07	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.81	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.73	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.741	1.10	PQL	ng/Kg	



# **SAMPLE DELIVERY GROUP**

**DX089**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-May-2011	SL-203-SA5DN-SS-0.0-0.5	6297652	N	METHOD	1613B	III
24-May-2011	SL-204-SA5DN-SS-0.0-0.5	6297653	N	METHOD	1613B	III
24-May-2011	SL-139-SA5DN-SB-2.0-3.0	6297654	N	METHOD	1613B	III
24-May-2011	SL-145-SA5DN-SB-2.0-3.0	6297655	N	METHOD	1613B	III
24-May-2011	EB06-SA5DN-SS-052411	6297658	EB	METHOD	1613B	III
24-May-2011	SL-146-SA5DN-SB-2.0-3.0	6297656	N	METHOD	1613B	III
24-May-2011	SL-150-SA5DN-SB-4.0-5.0	6297657	N	METHOD	1613B	III
25-May-2011	SL-144-SA5DN-SB-2.0-3.0	6298884	N	METHOD	1613B	III
25-May-2011	SL-144-SA5DN-SB-2.0-3.0MS	6298885	MS	METHOD	1613B	III
25-May-2011	DUP07-SA5DN-QC-052511	6298887	FD	METHOD	1613B	III
25-May-2011	SL-142-SA5DN-SB-2.0-3.0	6298883	N	METHOD	1613B	III
25-May-2011	SL-140-SA5DN-SB-2.0-3.0	6298882	N	METHOD	1613B	III
25-May-2011	SL-133-SA5DN-SB-4.0-5.0	6298881	N	METHOD	1613B	III
25-May-2011	SL-130-SA5DN-SB-4.0-5.0	6298880	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	AQ
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Sample ID: EB06-SA5DN-SS-052411      Collected: 5/24/2011 12:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.95	JBQ	0.429	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.97	JBQ	0.178	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.697	JBQ	0.202	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.710	JB	0.278	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.627	JB	0.303	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.377	JB	0.266	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.723	JBQ	0.291	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.665	JB	0.270	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.774	JBQ	0.257	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.801	JBQ	0.224	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.872	JBQ	0.237	MDL	10.1	PQL	pg/L	U	B
OCDD	6.83	JB	0.463	MDL	20.1	PQL	pg/L	U	B
OCDF	2.41	JB	0.520	MDL	20.1	PQL	pg/L	U	B

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: DUP07-SA5DN-QC-052511      Collected: 5/25/2011 9:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.309	JB	0.0292	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.167	JB	0.00877	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.218	JBQ	0.0231	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.104	JB	0.0351	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0931	JBQ	0.0167	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.177	JB	0.0364	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.117	JBQ	0.0130	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.251	JBQ	0.0355	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.169	JB	0.0209	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.115	JB	0.0252	MDL	5.23	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.105	JB	0.0103	MDL	5.23	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.147	JB	0.0156	MDL	5.23	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.141	JBQ	0.0119	MDL	5.23	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0390	JBQ	0.0163	MDL	1.05	PQL	ng/Kg	UJ	B, FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

<b>Sample ID:</b> DUP07-SA5DN-QC-052511	<b>Collected:</b> 5/25/2011 9:00:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.758	JB	0.0279	MDL	10.5	PQL	ng/Kg	UJ	B, FD
OCDF	0.452	JB	0.0502	MDL	10.5	PQL	ng/Kg	UJ	B, FD

<b>Sample ID:</b> SL-130-SA5DN-SB-4.0-5.0	<b>Collected:</b> 5/25/2011 4:15:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.69	JB	0.0250	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.222	JB	0.0388	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.595	JB	0.0637	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.464	JB	0.0449	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.66	JB	0.0661	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.329	JBQ	0.0341	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.34	JB	0.0589	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.272	JBQ	0.0335	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.541	JB	0.0297	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.410	JB	0.0103	MDL	5.59	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.221	JBQ	0.0262	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.342	JB	0.0108	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.105	JQ	0.0179	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0996	JB	0.0148	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	8.21	JB	0.0613	MDL	11.2	PQL	ng/Kg	J	Z

<b>Sample ID:</b> SL-133-SA5DN-SB-4.0-5.0	<b>Collected:</b> 5/25/2011 12:00:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.504	JBQ	0.0313	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.152	JBQ	0.0110	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.132	JBQ	0.0201	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0882	JBQ	0.0163	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.154	JBQ	0.0163	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0987	JB	0.0171	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.113	JBQ	0.0133	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.113	JB	0.0161	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.154	JBQ	0.0148	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.149	JBQ	0.0148	MDL	5.57	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-133-SA5DN-SB-4.0-5.0	Collected: 5/25/2011 12:00:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.175	JB	0.00860	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0998	JBQ	0.0124	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JB	0.00860	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0585	JQ	0.0152	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0427	JBQ	0.0137	MDL	1.11	PQL	ng/Kg	U	B
OCDD	6.10	JB	0.0355	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.358	JB	0.0357	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-139-SA5DN-SB-2.0-3.0	Collected: 5/24/2011 10:45:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.784	JBQ	0.0247	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.124	JBQ	0.0456	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.123	JBQ	0.0489	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0535	JBQ	0.0252	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.389	JB	0.0503	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0448	JBQ	0.0211	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.397	JB	0.0479	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0846	JBQ	0.0321	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0915	JBQ	0.0438	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0765	JBQ	0.0157	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0626	JBQ	0.0235	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.101	JBQ	0.0151	MDL	5.53	PQL	ng/Kg	U	B
OCDF	2.06	JB	0.0537	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-140-SA5DN-SB-2.0-3.0	Collected: 5/25/2011 10:55:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.376	JB	0.0261	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.118	JBQ	0.0116	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0841	JBQ	0.0190	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0359	JBQ	0.0142	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0561	JBQ	0.0192	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0606	JBQ	0.0149	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0494	JBQ	0.0146	MDL	5.34	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

8/22/2011 2:09:45 PM

ADR version 1.4.0.111

# Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category:	SVOA	
Method:	1613B	Matrix: SO

Sample ID: SL-140-SA5DN-SB-2.0-3.0

Collected: 5/25/2011 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.0592	JB	0.0145	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0511	JBQ	0.0119	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0294	JBQ	0.0159	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0232	JBQ	0.00748	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0381	JB	0.00833	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0626	JB	0.00833	MDL	5.34	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0171	JBQ	0.0132	MDL	1.07	PQL	ng/Kg	U	B
OCDD	4.56	JB	0.0282	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.206	JBQ	0.0424	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-142-SA5DN-SB-2.0-3.0

Collected: 5/25/2011 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.224	JB	0.0262	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0639	JBQ	0.00757	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0328	JBQ	0.0162	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0393	JBQ	0.0143	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0850	JBQ	0.0280	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0275	JBQ	0.0105	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.104	JBQ	0.0268	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0792	JBQ	0.0128	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0240	JBQ	0.0179	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0142	JBQ	0.00812	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0202	JB	0.00889	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0554	JBQ	0.00933	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0193	JQ	0.0183	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.429	JBQ	0.0266	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.192	JBQ	0.0418	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-144-SA5DN-SB-2.0-3.0

Collected: 5/25/2011 8:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.248	JBQ	0.0243	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0837	JBQ	0.00695	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0469	JB	0.0142	MDL	5.40	PQL	ng/Kg	UJ	B, FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA		
<b>Method:</b>	1613B	<b>Matrix:</b>	SO

Sample ID: SL-144-SA5DN-SB-2.0-3.0

Collected: 5/25/2011 8:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0181	U	0.0181	MDL	5.40	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0112	JBQ	0.0108	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDD	0.0308	JBQ	0.0191	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0143	JB	0.00849	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.0317	JBQ	0.0180	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0361	JBQ	0.0116	MDL	5.40	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0175	U	0.0175	MDL	5.40	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0114	JBQ	0.00849	MDL	5.40	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0263	JBQ	0.00948	MDL	5.40	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0408	JB	0.00871	MDL	5.40	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0160	U	0.0160	MDL	1.08	PQL	ng/Kg	UJ	FD
OCDD	1.33	JB	0.0337	MDL	10.8	PQL	ng/Kg	UJ	B, FD
OCDF	0.144	JBQ	0.0357	MDL	10.8	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-145-SA5DN-SB-2.0-3.0

Collected: 5/24/2011 12:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.26	JB	0.0394	MDL	5.19	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0103	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0326	JBQ	0.0177	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0224	JBQ	0.0174	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0201	JBQ	0.0112	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.120	JB	0.0182	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0417	JBQ	0.0102	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.192	JBQ	0.0174	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.112	JB	0.0134	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0193	JBQ	0.0180	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0263	JBQ	0.00870	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0405	JBQ	0.0107	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0451	JBQ	0.00923	MDL	5.19	PQL	ng/Kg	U	B
OCDF	0.371	JB	0.0319	MDL	10.4	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA		
<b>Method:</b>	1613B	<b>Matrix:</b>	SO

Sample ID: SL-146-SA5DN-SB-2.0-3.0	Collected: 5/24/2011 2:40:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.224	JB	0.0230	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.104	JB	0.00783	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0906	JBQ	0.0157	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0941	JB	0.0158	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.125	JBQ	0.0179	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0939	JB	0.0164	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.126	JBQ	0.0138	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.122	JB	0.0162	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.126	JB	0.0176	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.132	JBQ	0.0182	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.170	JB	0.00864	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.123	JB	0.0127	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.206	JBQ	0.00946	MDL	5.79	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0610	JQ	0.0168	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0305	JBQ	0.0150	MDL	1.16	PQL	ng/Kg	U	B
OCDD	0.535	JB	0.0311	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.176	JBQ	0.0361	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-150-SA5DN-SB-4.0-5.0	Collected: 5/24/2011 3:35:00	Analysis Type: RES	Dilution: 1						
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.284	JB	0.0239	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.189	JBQ	0.0156	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.115	JB	0.0174	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.256	JB	0.0247	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.315	JB	0.0368	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.276	JB	0.0262	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.342	JB	0.0321	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.275	JB	0.0241	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.271	JBQ	0.0220	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.468	JBQ	0.0241	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.563	JB	0.0120	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.231	JBQ	0.0174	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.483	JB	0.0125	MDL	5.37	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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<b>Sample ID:</b> SL-150-SA5DN-SB-4.0-5.0	<b>Collected:</b> 5/24/2011 3:35:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.133	JQ	0.0189	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.163	JBQ	0.0168	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	0.535	JBQ	0.0267	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.194	JBQ	0.0366	MDL	10.7	PQL	ng/Kg	U	B

<b>Sample ID:</b> SL-203-SA5DN-SS-0.0-0.5	<b>Collected:</b> 5/24/2011 8:50:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	5.53	JB	0.0409	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.530	JBQ	0.0544	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.572	JB	0.0732	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.85	JB	0.0815	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.93	JB	0.0738	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.570	JB	0.0661	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.49	JB	0.0655	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.14	JB	0.0761	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.389	JB	0.0495	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.26	JB	0.0561	MDL	5.84	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.469	JB	0.0606	MDL	5.84	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.766	JB	0.0627	MDL	5.84	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0509	JQ	0.0178	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.918	JB	0.154	MDL	1.17	PQL	ng/Kg	J	Z

<b>Sample ID:</b> SL-204-SA5DN-SS-0.0-0.5	<b>Collected:</b> 5/24/2011 10:08:00	<b>Analysis Type:</b> RES	<b>Dilution:</b> 1
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Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.54	JB	0.0404	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.388	JB	0.0179	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0654	JBQ	0.0352	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0801	JB	0.0301	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.170	JBQ	0.0210	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.300	JB	0.0317	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0803	JB	0.0179	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.388	JB	0.0298	MDL	5.75	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.373	JBQ	0.0302	MDL	5.75	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-204-SA5DN-SS-0.0-0.5

Collected: 5/24/2011 10:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0703	JBQ	0.0218	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.285	JBQ	0.0182	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0632	JBQ	0.0213	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.128	JBQ	0.0184	MDL	5.75	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0448	JBQ	0.0325	MDL	1.15	PQL	ng/Kg	U	B
OCDF	0.829	JBQ	0.0515	MDL	11.5	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

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

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## **Enclosure I**

### **EPA Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DX089

# Method Blank Outlier Report

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1470B371534	6/1/2011 3:34:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDF OCDD OCDF	5.92 pg/L 4.23 pg/L 1.72 pg/L 1.05 pg/L 1.89 pg/L 1.65 pg/L 1.45 pg/L 1.92 pg/L 1.58 pg/L 1.10 pg/L 1.09 pg/L 1.60 pg/L 1.91 pg/L 0.454 pg/L 18.2 pg/L 6.41 pg/L	EB06-SA5DN-SS-052411

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB06-SA5DN-SS-052411(RES)	1,2,3,4,6,7,8-HPCDD	2.95 pg/L	2.95U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,4,6,7,8-HPCDF	1.97 pg/L	1.97U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,4,7,8,9-HPCDF	0.697 pg/L	0.697U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,4,7,8-HXCDF	0.710 pg/L	0.710U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,6,7,8-HXCDD	0.627 pg/L	0.627U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,6,7,8-HXCDF	0.377 pg/L	0.377U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,7,8,9-HXCDD	0.723 pg/L	0.723U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,7,8,9-HXCDF	0.665 pg/L	0.665U pg/L
EB06-SA5DN-SS-052411(RES)	1,2,3,7,8-PECDF	0.774 pg/L	0.774U pg/L
EB06-SA5DN-SS-052411(RES)	2,3,4,6,7,8-HXCDF	0.801 pg/L	0.801U pg/L
EB06-SA5DN-SS-052411(RES)	2,3,4,7,8-PECDF	0.872 pg/L	0.872U pg/L
EB06-SA5DN-SS-052411(RES)	OCDD	6.83 pg/L	6.83U pg/L
EB06-SA5DN-SS-052411(RES)	OCDF	2.41 pg/L	2.41U pg/L

# Method Blank Outlier Report

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1580B372016	6/9/2011 8:16:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDF OCDD OCDF	0.226 ng/Kg 0.122 ng/Kg 0.0726 ng/Kg 0.0241 ng/Kg 0.0553 ng/Kg 0.0485 ng/Kg 0.0467 ng/Kg 0.0535 ng/Kg 0.0693 ng/Kg 0.0396 ng/Kg 0.0353 ng/Kg 0.0579 ng/Kg 0.0728 ng/Kg 0.0170 ng/Kg 0.430 ng/Kg 0.206 ng/Kg	DUP07-SA5DN-QC-052511 SL-130-SA5DN-SB-4.0-5.0 SL-133-SA5DN-SB-4.0-5.0 SL-139-SA5DN-SB-2.0-3.0 SL-140-SA5DN-SB-2.0-3.0 SL-142-SA5DN-SB-2.0-3.0 SL-144-SA5DN-SB-2.0-3.0 SL-145-SA5DN-SB-2.0-3.0 SL-146-SA5DN-SB-2.0-3.0 SL-150-SA5DN-SB-4.0-5.0 SL-203-SA5DN-SS-0.0-0.5 SL-204-SA5DN-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP07-SA5DN-QC-052511(RES)	1,2,3,4,6,7,8-HPCDD	0.309 ng/Kg	0.309U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,4,6,7,8-HPCDF	0.167 ng/Kg	0.167U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,4,7,8,9-HPCDF	0.218 ng/Kg	0.218U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,4,7,8-HxCDD	0.104 ng/Kg	0.104U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,4,7,8-HXCDF	0.0931 ng/Kg	0.0931U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,6,7,8-HXCDD	0.177 ng/Kg	0.177U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,6,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,7,8,9-HXCDD	0.251 ng/Kg	0.251U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,7,8,9-HXCDF	0.169 ng/Kg	0.169U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,7,8-PECDD	0.115 ng/Kg	0.115U ng/Kg
DUP07-SA5DN-QC-052511(RES)	1,2,3,7,8-PECDF	0.105 ng/Kg	0.105U ng/Kg
DUP07-SA5DN-QC-052511(RES)	2,3,4,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
DUP07-SA5DN-QC-052511(RES)	2,3,4,7,8-PECDF	0.141 ng/Kg	0.141U ng/Kg
DUP07-SA5DN-QC-052511(RES)	2,3,7,8-TCDF	0.0390 ng/Kg	0.0390U ng/Kg
DUP07-SA5DN-QC-052511(RES)	OCDD	0.758 ng/Kg	0.758U ng/Kg
DUP07-SA5DN-QC-052511(RES)	OCDF	0.452 ng/Kg	0.452U ng/Kg
SL-130-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.222 ng/Kg	0.222U ng/Kg
SL-130-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.272 ng/Kg	0.272U ng/Kg
SL-130-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-130-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.342 ng/Kg	0.342U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.504 ng/Kg	0.504U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.152 ng/Kg	0.152U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.132 ng/Kg	0.132U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0882 ng/Kg	0.0882U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.154 ng/Kg	0.154U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0987 ng/Kg	0.0987U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.113 ng/Kg	0.113U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.154 ng/Kg	0.154U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.149 ng/Kg	0.149U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.175 ng/Kg	0.175U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-133-SA5DN-SB-4.0-5.0(RES)	OCDF	0.358 ng/Kg	0.358U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0535 ng/Kg	0.0535U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0448 ng/Kg	0.0448U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0915 ng/Kg	0.0915U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0765 ng/Kg	0.0765U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0626 ng/Kg	0.0626U ng/Kg
SL-139-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.376 ng/Kg	0.376U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.118 ng/Kg	0.118U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0841 ng/Kg	0.0841U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0359 ng/Kg	0.0359U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0606 ng/Kg	0.0606U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0494 ng/Kg	0.0494U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0592 ng/Kg	0.0592U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0294 ng/Kg	0.0294U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0232 ng/Kg	0.0232U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0626 ng/Kg	0.0626U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0171 ng/Kg	0.0171U ng/Kg
SL-140-SA5DN-SB-2.0-3.0(RES)	OCDF	0.206 ng/Kg	0.206U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.224 ng/Kg	0.224U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0639 ng/Kg	0.0639U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0328 ng/Kg	0.0328U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0393 ng/Kg	0.0393U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0850 ng/Kg	0.0850U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method:</b> 1613B
<b>Matrix:</b> SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0275 ng/Kg	0.0275U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.104 ng/Kg	0.104U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0792 ng/Kg	0.0792U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0240 ng/Kg	0.0240U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0142 ng/Kg	0.0142U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0202 ng/Kg	0.0202U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0554 ng/Kg	0.0554U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	OCDD	0.429 ng/Kg	0.429U ng/Kg
SL-142-SA5DN-SB-2.0-3.0(RES)	OCDF	0.192 ng/Kg	0.192U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.248 ng/Kg	0.248U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0837 ng/Kg	0.0837U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0112 ng/Kg	0.0112U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0308 ng/Kg	0.0308U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0143 ng/Kg	0.0143U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0114 ng/Kg	0.0114U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0263 ng/Kg	0.0263U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0408 ng/Kg	0.0408U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	OCDD	1.33 ng/Kg	1.33U ng/Kg
SL-144-SA5DN-SB-2.0-3.0(RES)	OCDF	0.144 ng/Kg	0.144U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0224 ng/Kg	0.0224U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0201 ng/Kg	0.0201U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.120 ng/Kg	0.120U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.192 ng/Kg	0.192U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.112 ng/Kg	0.112U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0193 ng/Kg	0.0193U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0263 ng/Kg	0.0263U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0405 ng/Kg	0.0405U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0451 ng/Kg	0.0451U ng/Kg
SL-145-SA5DN-SB-2.0-3.0(RES)	OCDF	0.371 ng/Kg	0.371U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.224 ng/Kg	0.224U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.104 ng/Kg	0.104U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0906 ng/Kg	0.0906U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0941 ng/Kg	0.0941U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.0939 ng/Kg	0.0939U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.132 ng/Kg	0.132U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.123 ng/Kg	0.123U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.206 ng/Kg	0.206U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0305 ng/Kg	0.0305U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	OCDD	0.535 ng/Kg	0.535U ng/Kg
SL-146-SA5DN-SB-2.0-3.0(RES)	OCDF	0.176 ng/Kg	0.176U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.284 ng/Kg	0.284U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.189 ng/Kg	0.189U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.271 ng/Kg	0.271U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.231 ng/Kg	0.231U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	OCDD	0.535 ng/Kg	0.535U ng/Kg
SL-150-SA5DN-SB-4.0-5.0(RES)	OCDF	0.194 ng/Kg	0.194U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.388 ng/Kg	0.388U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0654 ng/Kg	0.0654U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0801 ng/Kg	0.0801U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0803 ng/Kg	0.0803U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0703 ng/Kg	0.0703U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0632 ng/Kg	0.0632U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.128 ng/Kg	0.128U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0448 ng/Kg	0.0448U ng/Kg
SL-204-SA5DN-SS-0.0-0.5(RES)	OCDF	0.829 ng/Kg	0.829U ng/Kg

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

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# Field Duplicate RPD Report

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 160.3M**  
**Matrix: SO**

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-144-SA5DN-SB-2.0-3.0	DUP07-SA5DN-QC-052511			
MOISTURE	9.3	6.5	35		No Qualifiers Applied

**Method: 1613B**  
**Matrix: SO**

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-144-SA5DN-SB-2.0-3.0	DUP07-SA5DN-QC-052511			
1,2,3,4,6,7,8-HPCDD	0.248	0.309	22	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.0837	0.167	66	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8,9-HPCDF	0.0469	0.218	129	50.00	
1,2,3,4,7,8-HxCDD	5.40 U	0.104	200	50.00	
1,2,3,4,7,8-HXCDF	0.0112	0.0931	157	50.00	
1,2,3,6,7,8-HXCDD	0.0308	0.177	141	50.00	
1,2,3,6,7,8-HXCDF	0.0143	0.117	156	50.00	
1,2,3,7,8,9-HXCDD	0.0317	0.251	155	50.00	
1,2,3,7,8,9-HXCDF	0.0361	0.169	130	50.00	
1,2,3,7,8-PECDD	5.40 U	0.115	200	50.00	
1,2,3,7,8-PECDF	0.0114	0.105	161	50.00	
2,3,4,6,7,8-HXCDF	0.0263	0.147	139	50.00	
2,3,4,7,8-PECDF	0.0408	0.141	110	50.00	
2,3,7,8-TCDF	1.08 U	0.0390	200	50.00	
OCDD	1.33	0.758	55	50.00	
OCDF	0.144	0.452	103	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B

**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB06-SA5DN-SS-052411	1,2,3,4,6,7,8-HPCDD	JBQ	2.95	10.1	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	1.97	10.1	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.697	10.1	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.710	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JB	0.627	10.1	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.377	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.723	10.1	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.665	10.1	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.774	10.1	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.801	10.1	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.872	10.1	PQL	pg/L	
	OCDD	JB	6.83	20.1	PQL	pg/L	
	OCDF	JB	2.41	20.1	PQL	pg/L	

**Method:** 1613B

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA5DN-QC-052511	1,2,3,4,6,7,8-HPCDD	JB	0.309	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.167	5.23	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.218	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.104	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0931	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.177	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.117	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.251	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.169	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.115	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.105	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.147	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.141	5.23	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0390	1.05	PQL	ng/Kg	
OCDD	JB	0.758	10.5	PQL	ng/Kg		
OCDF	JB	0.452	10.5	PQL	ng/Kg		
SL-130-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.69	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.222	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.595	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.464	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.66	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.329	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.34	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.272	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.541	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.410	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.221	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.342	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.105	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0996	1.12	PQL	ng/Kg	
OCDF	JB	8.21	11.2	PQL	ng/Kg		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.504	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.152	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.132	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0882	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.154	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0987	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.113	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.113	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.154	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.149	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.175	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0998	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0585	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0427	1.11	PQL	ng/Kg	
	OCDD	JB	6.10	11.1	PQL	ng/Kg	
	OCDF	JB	0.358	11.1	PQL	ng/Kg	
SL-139-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JBQ	0.784	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.124	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.123	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0535	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.389	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0448	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.397	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0846	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0915	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0765	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0626	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.101	5.53	PQL	ng/Kg	
	OCDF	JB	2.06	11.1	PQL	ng/Kg	
SL-140-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.376	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.118	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0841	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0359	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0561	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0606	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0494	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0592	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0511	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0294	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0232	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0381	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0626	5.34	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0171	1.07	PQL	ng/Kg	
	OCDD	JB	4.56	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.206	10.7	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-142-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.224	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0639	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0328	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0393	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0850	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0275	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.104	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0792	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0240	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0142	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0202	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0554	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0193	1.10	PQL	ng/Kg	
	OCDD	JBQ	0.429	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.192	11.0	PQL	ng/Kg	
SL-144-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.248	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0837	5.40	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0469	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0112	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0308	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0143	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0317	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0361	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0114	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0263	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0408	5.40	PQL	ng/Kg	
	OCDD	JB	1.33	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.144	10.8	PQL	ng/Kg	
SL-145-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	1.26	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0326	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0224	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0201	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.120	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0417	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.192	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.112	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0193	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0263	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0405	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0451	5.19	PQL	ng/Kg	
	OCDF	JB	0.371	10.4	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-146-SA5DN-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.224	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.104	5.79	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0906	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0941	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.125	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0939	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.126	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.122	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.126	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.132	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.170	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.123	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.206	5.79	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0610	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0305	1.16	PQL	ng/Kg	
	OCDD	JB	0.535	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.176	11.6	PQL	ng/Kg	
SL-150-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.284	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.189	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.115	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.256	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.315	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.276	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.342	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.275	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.271	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.468	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.563	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.231	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.483	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.133	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.163	1.07	PQL	ng/Kg	
	OCDD	JBQ	0.535	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.194	10.7	PQL	ng/Kg	
SL-203-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	5.53	5.84	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.530	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.572	5.84	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.85	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.93	5.84	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.570	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.49	5.84	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	1.14	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.389	5.84	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.26	5.84	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.469	5.84	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.766	5.84	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0509	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.918	1.17	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX089

Laboratory: LL

EDD Filename: DX089\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-204-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.54	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.388	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0654	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0801	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.170	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.300	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0803	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.388	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.373	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0703	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.285	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0632	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.128	5.75	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0448	1.15	PQL	ng/Kg	
	OCDF	JBQ	0.829	11.5	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX090**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
24-May-2011	SL-185-SA5DN-SS-0.0-0.5	6298905	N	METHOD	1613B	IV
24-May-2011	SL-057-SA5DN-SS-0.0-0.5	6298902	N	METHOD	1613B	IV
24-May-2011	SL-057-SA5DN-SS-0.0-0.5MS	6298903	MS	METHOD	1613B	IV
24-May-2011	DUP06-SA5DN-QC-052411	6298906	FD	METHOD	1613B	IV
25-May-2011	SL-006-SA5DN-SS-0.0-0.5	6298911	N	METHOD	1613B	IV
25-May-2011	SL-002-SA5DN-SS-0.0-0.5	6298908	N	METHOD	1613B	IV
25-May-2011	SL-001-SA5DN-SS-0.0-0.5	6298907	N	METHOD	1613B	IV
25-May-2011	SL-005-SA5DN-SS-0.0-0.5	6298910	N	METHOD	1613B	IV
25-May-2011	SL-004-SA5DN-SS-0.0-0.5	6298909	N	METHOD	1613B	IV
25-May-2011	SL-199-SA5DN-SS-0.0-0.5	6298914	N	METHOD	1613B	IV
25-May-2011	SL-190-SA5DN-SS-0.0-0.5	6298913	N	METHOD	1613B	IV
25-May-2011	SL-060-SA5DN-SS-0.0-0.5	6298912	N	METHOD	1613B	IV

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: DUP06-SA5DN-QC-052411

Collected: 5/24/2011 3:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.07	JB	0.0301	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.537	JB	0.0149	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0704	JBQ	0.0184	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0914	JBQ	0.0286	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.120	JBQ	0.0237	MDL	5.80	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.243	JB	0.0302	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0804	JB	0.0219	MDL	5.80	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.248	JB	0.0286	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.233	JBQ	0.0234	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0722	JQ	0.0292	MDL	5.80	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.135	JB	0.0206	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.112	JBQ	0.0223	MDL	5.80	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.189	JB	0.0195	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0306	JQ	0.0253	MDL	1.16	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0350	U	0.0350	MDL	1.16	PQL	ng/Kg	UJ	FD
OCDF	1.32	JB	0.0353	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-001-SA5DN-SS-0.0-0.5

Collected: 5/25/2011 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.805	JB	0.0379	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.431	JB	0.0401	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.34	JB	0.0392	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.28	JB	0.0425	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.845	JB	0.0348	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.50	JB	0.0417	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.62	JB	0.0396	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.341	JQ	0.0346	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.827	JB	0.0284	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.944	JB	0.0357	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.06	JB	0.0293	MDL	5.66	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.375	J	0.0555	MDL	1.13	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA		
<b>Method:</b>	1613B	<b>Matrix:</b>	SO

Sample ID: SL-002-SA5DN-SS-0.0-0.5      Collected: 5/25/2011 9:20:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.439	JBQ	0.0352	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.530	JB	0.0320	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.599	JB	0.0319	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.76	JB	0.0346	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.513	JB	0.0286	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.958	JB	0.0327	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.408	JB	0.0292	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.301	J	0.0294	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.278	JB	0.0242	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.662	JB	0.0257	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.672	JB	0.0237	MDL	5.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.161	J	0.0429	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-004-SA5DN-SS-0.0-0.5      Collected: 5/25/2011 10:55:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.24	JB	0.0361	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.289	JB	0.0291	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.113	JB	0.0324	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.254	JB	0.0370	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.164	JB	0.0251	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.736	JB	0.0395	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.178	JB	0.0238	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	1.80	JB	0.0373	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.165	JB	0.0248	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	4.20	J	0.0621	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.272	JBQ	0.0180	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.165	JB	0.0199	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.317	JB	0.0165	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.138	J	0.0312	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	9.88	JB	0.0493	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.519	JB	0.0550	MDL	10.6	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	SO
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Sample ID: SL-005-SA5DN-SS-0.0-0.5

Collected: 5/25/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.57	JB	0.0233	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.382	JB	0.0277	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.589	JB	0.0302	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.752	JB	0.0258	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.80	JB	0.0310	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.541	JBQ	0.0236	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.76	JB	0.0305	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.08	JB	0.0270	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.590	J	0.0353	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.574	JB	0.0279	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.492	JB	0.0219	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.962	JB	0.0268	MDL	5.55	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.104	J	0.0195	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.590	J	0.0539	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	8.90	JB	0.0305	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-006-SA5DN-SS-0.0-0.5

Collected: 5/25/2011 8:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.98	JB	0.0708	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.76	JB	0.0601	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.93	JB	0.0570	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	5.43	JB	0.0644	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.77	JB	0.0568	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	5.71	JB	0.0616	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.40	JB	0.0646	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.53	J	0.0607	MDL	5.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.16	JB	0.0636	MDL	5.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.92	JB	0.0587	MDL	5.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.52	JB	0.0565	MDL	5.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.182	J	0.0317	MDL	1.20	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA		
<b>Method:</b>	1613B	<b>Matrix:</b>	SO

Sample ID: SL-057-SA5DN-SS-0.0-0.5

Collected: 5/24/2011 3:48:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.90	JB	0.0357	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.876	JB	0.0177	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.106	JB	0.0203	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.123	JB	0.0293	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.333	JB	0.0293	MDL	5.67	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HxCDD	0.382	JB	0.0299	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.151	JB	0.0254	MDL	5.67	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.404	JB	0.0292	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.282	JB	0.0239	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.126	J	0.0291	MDL	5.67	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.152	JBQ	0.0230	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.159	JB	0.0210	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.164	JBQ	0.0223	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0233	U	0.0233	MDL	1.13	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0807	J	0.0388	MDL	1.13	PQL	ng/Kg	J	Z, FD
OCDF	1.59	JB	0.0304	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-060-SA5DN-SS-0.0-0.5

Collected: 5/25/2011 3:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.75	JB	0.0303	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.376	JB	0.0337	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.428	JB	0.0317	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.824	JB	0.0307	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.29	JB	0.0340	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.361	JBQ	0.0290	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.17	JB	0.0341	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.836	JB	0.0267	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.375	J	0.0321	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.297	JB	0.0272	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.477	JB	0.0222	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.643	JB	0.0269	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0919	JQ	0.0211	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.266	J	0.0404	MDL	1.06	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-060-SA5DN-SS-0.0-0.5      Collected: 5/25/2011 3:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	7.68	JB	0.0404	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-185-SA5DN-SS-0.0-0.5      Collected: 5/24/2011 3:27:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.83	JB	0.0385	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.446	JBQ	0.0183	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0789	JBQ	0.0241	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0661	JBQ	0.0276	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.249	JBQ	0.0280	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.225	JBQ	0.0296	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.105	JBQ	0.0241	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.183	JBQ	0.0274	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.209	JBQ	0.0239	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0480	JQ	0.0287	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0636	JBQ	0.0249	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.108	JBQ	0.0191	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.174	JBQ	0.0241	MDL	5.49	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.159	JQ	0.0447	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.827	JB	0.0503	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-190-SA5DN-SS-0.0-0.5      Collected: 5/25/2011 2:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.75	JB	0.0372	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.778	JB	0.0191	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0957	JBQ	0.0373	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0688	JB	0.0250	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.354	JB	0.0209	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.225	JB	0.0277	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.118	JB	0.0175	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.207	JB	0.0259	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.144	JB	0.0265	MDL	5.88	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0792	JQ	0.0245	MDL	5.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.131	JB	0.0214	MDL	5.88	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA		
<b>Method:</b>	1613B	<b>Matrix:</b>	SO

Sample ID: SL-190-SA5DN-SS-0.0-0.5      Collected: 5/25/2011 2:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.162	JB	0.0200	MDL	5.88	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.322	JB	0.0215	MDL	5.88	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0209	JQ	0.0153	MDL	1.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.265	J	0.0430	MDL	1.18	PQL	ng/Kg	J	Z
OCDF	1.52	JB	0.0547	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-199-SA5DN-SS-0.0-0.5      Collected: 5/25/2011 11:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.83	JB	0.0329	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.15	JB	0.0258	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.929	JB	0.0230	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	4.42	JB	0.0275	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.11	JB	0.0198	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.53	JB	0.0269	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.723	JB	0.0262	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.570	J	0.0276	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.96	JB	0.0291	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.50	JB	0.0215	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.42	JB	0.0292	MDL	5.37	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0836	J	0.0160	MDL	1.07	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Verification Percent Recovery Lower Estimation
C	Initial Calibration Verification Percent Recovery Lower Rejection
C	Initial Calibration Verification Percent Recovery Upper Estimation
C	Initial Calibration Verification Percent Recovery Upper Rejection
C	Initial Calibration Verification Relative Response Factor
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Laboratory Triplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
F	Field Blank Contamination
FD	Field Duplicate Precision
FT	Field Triplicate Precision
H	Extraction to Analysis Estimation
H	Extraction to Analysis Rejection
H	Preservation
H	Sampling to Analysis Estimation
H	Sampling to Analysis Rejection
H	Sampling to Extraction Estimation
H	Sampling to Extraction Rejection
H	Sampling to Leaching Estimation
H	Sampling to Leaching Rejection
H	Temperature Estimation
H	Temperature Rejection
I	Internal Standard Estimation
I	Internal Standard Rejection
L	Laboratory Control Precision
L	Laboratory Control Spike Lower Estimation

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

L	Laboratory Control Spike Lower Rejection
L	Laboratory Control Spike Upper Estimation
L	Laboratory Control Spike Upper Rejection
M	Continuing Tune
M	Initial Tune
M	Performance Evaluation Mixture
M	Resolution Check Mixture
Q	Laboratory Duplicate Precision
Q	Laboratory Triplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
Q	Matrix Spike Upper Rejection
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Lower Rejection
S	Surrogate/Tracer Recovery Upper Estimation
S	Surrogate/Tracer Recovery Upper Rejection
T	Trip Blank Contamination
Z	Reporting Limit
Z	Reporting Limit > Project Maximum Contamination Limit
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

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

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## **Enclosure I**

### **EPA Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DX090

# Method Blank Outlier Report

Lab Reporting Batch ID: DX090  
 EDD Filename: PrepDX090\_v1

Laboratory: LL  
 eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1590B371300	6/10/2011 1:00:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.182 ng/Kg 0.118 ng/Kg 0.0736 ng/Kg 0.0419 ng/Kg 0.0475 ng/Kg 0.0307 ng/Kg 0.0493 ng/Kg 0.0427 ng/Kg 0.0885 ng/Kg 0.0269 ng/Kg 0.0739 ng/Kg 0.0558 ng/Kg 0.425 ng/Kg 0.342 ng/Kg	DUP06-SA5DN-QC-052411 SL-001-SA5DN-SS-0.0-0.5 SL-002-SA5DN-SS-0.0-0.5 SL-004-SA5DN-SS-0.0-0.5 SL-005-SA5DN-SS-0.0-0.5 SL-006-SA5DN-SS-0.0-0.5 SL-057-SA5DN-SS-0.0-0.5 SL-060-SA5DN-SS-0.0-0.5 SL-185-SA5DN-SS-0.0-0.5 SL-190-SA5DN-SS-0.0-0.5 SL-199-SA5DN-SS-0.0-0.5
BLK1590B371310	6/14/2011 1:10:00 PM	2,3,7,8-TCDF	0.0408 ng/Kg	DUP06-SA5DN-QC-052411 SL-001-SA5DN-SS-0.0-0.5 SL-002-SA5DN-SS-0.0-0.5 SL-004-SA5DN-SS-0.0-0.5 SL-005-SA5DN-SS-0.0-0.5 SL-006-SA5DN-SS-0.0-0.5 SL-057-SA5DN-SS-0.0-0.5 SL-060-SA5DN-SS-0.0-0.5 SL-185-SA5DN-SS-0.0-0.5 SL-190-SA5DN-SS-0.0-0.5 SL-199-SA5DN-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP06-SA5DN-QC-052411(RES)	1,2,3,4,6,7,8-HPCDF	0.537 ng/Kg	0.537U ng/Kg
DUP06-SA5DN-QC-052411(RES)	1,2,3,4,7,8,9-HPCDF	0.0704 ng/Kg	0.0704U ng/Kg
DUP06-SA5DN-QC-052411(RES)	1,2,3,4,7,8-HxCDD	0.0914 ng/Kg	0.0914U ng/Kg
DUP06-SA5DN-QC-052411(RES)	1,2,3,4,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
DUP06-SA5DN-QC-052411(RES)	1,2,3,6,7,8-HXCDF	0.0804 ng/Kg	0.0804U ng/Kg
DUP06-SA5DN-QC-052411(RES)	1,2,3,7,8,9-HXCDF	0.233 ng/Kg	0.233U ng/Kg
DUP06-SA5DN-QC-052411(RES)	2,3,4,6,7,8-HXCDF	0.112 ng/Kg	0.112U ng/Kg
DUP06-SA5DN-QC-052411(RES)	2,3,4,7,8-PECDF	0.189 ng/Kg	0.189U ng/Kg
DUP06-SA5DN-QC-052411(RES)	OCDF	1.32 ng/Kg	1.32U ng/Kg
SL-002-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.408 ng/Kg	0.408U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.289 ng/Kg	0.289U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.164 ng/Kg	0.164U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-004-SA5DN-SS-0.0-0.5(RES)	OCDF	0.519 ng/Kg	0.519U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.106 ng/Kg	0.106U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.123 ng/Kg	0.123U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.151 ng/Kg	0.151U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-057-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.282 ng/Kg	0.282U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.159 ng/Kg	0.159U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.164 ng/Kg	0.164U ng/Kg
SL-057-SA5DN-SS-0.0-0.5(RES)	OCDF	1.59 ng/Kg	1.59U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.446 ng/Kg	0.446U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0789 ng/Kg	0.0789U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0661 ng/Kg	0.0661U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.105 ng/Kg	0.105U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.183 ng/Kg	0.183U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.209 ng/Kg	0.209U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.174 ng/Kg	0.174U ng/Kg
SL-185-SA5DN-SS-0.0-0.5(RES)	OCDF	0.827 ng/Kg	0.827U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0957 ng/Kg	0.0957U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0688 ng/Kg	0.0688U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.207 ng/Kg	0.207U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.131 ng/Kg	0.131U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-190-SA5DN-SS-0.0-0.5(RES)	OCDF	1.52 ng/Kg	1.52U ng/Kg

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

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# Field Duplicate RPD Report

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: DX090\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 160.3M**  
**Matrix: SO**

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-057-SA5DN-SS-0.0-0.5	DUP06-SA5DN-QC-052411			
MOISTURE	13.4	15.7	16		No Qualifiers Applied

**Method: 1613B**  
**Matrix: SO**

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag	
	SL-057-SA5DN-SS-0.0-0.5	DUP06-SA5DN-QC-052411				
1,2,3,4,6,7,8-HPCDD	4.90	3.07	46	50.00	No Qualifiers Applied	
1,2,3,4,6,7,8-HPCDF	0.876	0.537	48	50.00		
1,2,3,4,7,8,9-HPCDF	0.106	0.0704	40	50.00		
1,2,3,4,7,8-HxCDD	0.123	0.0914	29	50.00		
1,2,3,6,7,8-HxCDD	0.382	0.243	44	50.00		
1,2,3,7,8,9-HxCDD	0.404	0.248	48	50.00		
1,2,3,7,8,9-HxCDF	0.282	0.233	19	50.00		
1,2,3,7,8-PCDF	0.152	0.135	12	50.00		
2,3,4,6,7,8-HxCDF	0.159	0.112	35	50.00		
2,3,4,7,8-PCDF	0.164	0.189	14	50.00		
OCDD	44.8	34.9	25	50.00		
OCDF	1.59	1.32	19	50.00		
1,2,3,4,7,8-HxCDF	0.333	0.120	94	50.00		J(all detects) UJ(all non-detects)
1,2,3,6,7,8-HxCDF	0.151	0.0804	61	50.00		
1,2,3,7,8-PCDD	0.126	0.0722	54	50.00		
2,3,7,8-TCDD	1.13 U	0.0306	200	50.00		
2,3,7,8-TCDF	0.0807	1.16 U	200	50.00		

# Reporting Limit Outliers

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-199-SA5DN-SS-0.0-0.5	2,3,7,8-TCDF	B	2.13	1.07	PQL	ng/Kg	
DUP06-SA5DN-QC-052411	1,2,3,4,6,7,8-HPCDD	JB	3.07	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.537	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0704	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0914	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.120	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.243	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0804	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.248	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.233	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0722	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.135	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.112	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.189	5.80	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0306	1.16	PQL	ng/Kg	
	OCDF	JB	1.32	11.6	PQL	ng/Kg	
SL-001-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.805	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.431	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.34	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.28	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.845	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.50	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.62	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.341	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.827	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.944	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.06	5.66	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.375	1.13	PQL	ng/Kg	
SL-002-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.439	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.530	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.599	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.76	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.513	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.958	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.408	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.301	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.278	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.662	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.672	5.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.161	1.02	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.24	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.289	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.113	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.254	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.164	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.736	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.178	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.80	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.165	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	4.20	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.272	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.165	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.317	5.31	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.138	1.06	PQL	ng/Kg	
	OCDD	JB	9.88	10.6	PQL	ng/Kg	
	OCDF	JB	0.519	10.6	PQL	ng/Kg	
SL-005-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.57	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.382	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.589	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.752	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.80	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.541	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.76	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	1.08	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.590	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.574	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.492	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.962	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.104	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.590	1.11	PQL	ng/Kg	
OCDF	JB	8.90	11.1	PQL	ng/Kg		
SL-006-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.98	5.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.76	5.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	4.93	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	5.43	5.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.77	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	5.71	5.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	1.40	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.53	5.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.16	5.98	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.92	5.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.52	5.98	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.182	1.20	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-057-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.90	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.876	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.106	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.123	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.333	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.382	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.151	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.404	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.282	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.126	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.152	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.159	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.164	5.67	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0807	1.13	PQL	ng/Kg	
	OCDF	JB	1.59	11.3	PQL	ng/Kg	
	SL-060-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.75	5.28	PQL	
1,2,3,4,7,8,9-HPCDF		JB	0.376	5.28	PQL	ng/Kg	
1,2,3,4,7,8-HxCDD		JB	0.428	5.28	PQL	ng/Kg	
1,2,3,4,7,8-HxCDF		JB	0.824	5.28	PQL	ng/Kg	
1,2,3,6,7,8-HxCDD		JB	1.29	5.28	PQL	ng/Kg	
1,2,3,6,7,8-HxCDF		JBQ	0.361	5.28	PQL	ng/Kg	
1,2,3,7,8,9-HxCDD		JB	1.17	5.28	PQL	ng/Kg	
1,2,3,7,8,9-HxCDF		JB	0.836	5.28	PQL	ng/Kg	
1,2,3,7,8-PECDD		J	0.375	5.28	PQL	ng/Kg	
1,2,3,7,8-PECDF		JB	0.297	5.28	PQL	ng/Kg	
2,3,4,6,7,8-HxCDF		JB	0.477	5.28	PQL	ng/Kg	
2,3,4,7,8-PECDF		JB	0.643	5.28	PQL	ng/Kg	
2,3,7,8-TCDD		JQ	0.0919	1.06	PQL	ng/Kg	
2,3,7,8-TCDF		J	0.266	1.06	PQL	ng/Kg	
OCDF	JB	7.68	10.6	PQL	ng/Kg		
SL-185-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.83	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.446	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0789	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0661	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.249	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.225	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.105	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.183	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.209	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0480	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0636	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.108	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.174	5.49	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.159	1.10	PQL	ng/Kg	
	OCDF	JB	0.827	11.0	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX090

Laboratory: LL

EDD Filename: PrepDX090\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-190-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.75	5.88	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.778	5.88	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0957	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0688	5.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.354	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.225	5.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.118	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.207	5.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.144	5.88	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0792	5.88	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.131	5.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.162	5.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.322	5.88	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0209	1.18	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.265	1.18	PQL	ng/Kg	
	OCDF	JB	1.52	11.8	PQL	ng/Kg	
	SL-199-SA5DN-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.83	5.37	PQL	
1,2,3,4,7,8-HxCDD		JB	1.15	5.37	PQL	ng/Kg	
1,2,3,4,7,8-HXCDF		JB	0.929	5.37	PQL	ng/Kg	
1,2,3,6,7,8-HXCDD		JB	4.42	5.37	PQL	ng/Kg	
1,2,3,6,7,8-HXCDF		JB	1.11	5.37	PQL	ng/Kg	
1,2,3,7,8,9-HXCDD		JB	2.53	5.37	PQL	ng/Kg	
1,2,3,7,8,9-HXCDF		JB	0.723	5.37	PQL	ng/Kg	
1,2,3,7,8-PECDD		J	0.570	5.37	PQL	ng/Kg	
1,2,3,7,8-PECDF		JB	1.96	5.37	PQL	ng/Kg	
2,3,4,6,7,8-HXCDF		JB	1.50	5.37	PQL	ng/Kg	
2,3,4,7,8-PECDF		JB	2.42	5.37	PQL	ng/Kg	
2,3,7,8-TCDD		J	0.0836	1.07	PQL	ng/Kg	

## **Enclosure II**

### **EPA Level IV Validation Reports**

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** Santa Susana Field Laboratory  
**Collection Date:** May 24 through May 25, 2011  
**LDC Report Date:** August 24, 2011  
**Matrix:** Soil  
**Parameters:** Dioxins/Dibenzofurans  
**Validation Level:** Level IV  
**Laboratory:** Lancaster Laboratories  
**Sample Delivery Group (SDG):** DX090

### Sample Identification

SL-057-SA5DN-SS-0.0-0.5  
SL-185-SA5DN-SS-0.0-0.5  
DUP06-SA5DN-QC-052411  
SL-001-SA5DN-SS-0.0-0.5  
SL-002-SA5DN-SS-0.0-0.5  
SL-004-SA5DN-SS-0.0-0.5  
SL-005-SA5DN-SS-0.0-0.5  
SL-006-SA5DN-SS-0.0-0.5  
SL-060-SA5DN-SS-0.0-0.5  
SL-190-SA5DN-SS-0.0-0.5  
SL-199-SA5DN-SS-0.0-0.5  
SL-057-SA5DN-SS-0.0-0.5MS  
SL-057-SA5DN-SS-0.0-0.5MSD

## Introduction

This data review covers 13 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

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

The following are definitions of the data qualifiers:

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

## **I. Technical Holding Times**

All technical holding time requirements were met.

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

## **II. HRGC/HRMS Instrument Performance Check**

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

## **III. Initial Calibration**

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

## **IV. Routine Calibration (Continuing)**

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
11159001-MB	6/8/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0269 ng/Kg 0.0558 ng/Kg 0.0475 ng/Kg 0.0493 ng/Kg 0.0739 ng/Kg 0.0419 ng/Kg 0.0307 ng/Kg 0.0427 ng/Kg 0.0885 ng/Kg 0.118 ng/Kg 0.182 ng/Kg 0.0736 ng/Kg 0.425 ng/Kg 0.342 ng/Kg	All samples in SDG DX090

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

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-057-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.152 ng/Kg 0.164 ng/Kg 0.151 ng/Kg 0.159 ng/Kg 0.123 ng/Kg 0.282 ng/Kg 0.106 ng/Kg 1.59 ng/Kg	0.152U ng/Kg 0.164U ng/Kg 0.151U ng/Kg 0.159U ng/Kg 0.123U ng/Kg 0.282U ng/Kg 0.106U ng/Kg 1.59U ng/Kg
SL-185-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0636 ng/Kg 0.174 ng/Kg 0.105 ng/Kg 0.108 ng/Kg 0.0661 ng/Kg 0.183 ng/Kg 0.209 ng/Kg 0.446 ng/Kg 0.0789 ng/Kg 0.827 ng/Kg	0.0636U ng/Kg 0.174U ng/Kg 0.105U ng/Kg 0.108U ng/Kg 0.0661U ng/Kg 0.183U ng/Kg 0.209U ng/Kg 0.446U ng/Kg 0.0789U ng/Kg 0.827U ng/Kg
DUP06-SA5DN-QC-052411	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.189 ng/Kg 0.120 ng/Kg 0.0804 ng/Kg 0.112 ng/Kg 0.0914 ng/Kg 0.233 ng/Kg 0.537 ng/Kg 0.0704 ng/Kg 1.32 ng/Kg	0.189U ng/Kg 0.120U ng/Kg 0.0804U ng/Kg 0.112U ng/Kg 0.0914U ng/Kg 0.233U ng/Kg 0.537U ng/Kg 0.0704U ng/Kg 1.32U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-004-SA5DN-SS-0.0-0.5	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.164 ng/Kg 0.178 ng/Kg 0.165 ng/Kg 0.165 ng/Kg 0.289 ng/Kg 0.113 ng/Kg 0.519 ng/Kg	0.164U ng/Kg 0.178U ng/Kg 0.165U ng/Kg 0.165U ng/Kg 0.289U ng/Kg 0.113U ng/Kg 0.519U ng/Kg
SL-190-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.131 ng/Kg 0.118 ng/Kg 0.162 ng/Kg 0.0688 ng/Kg 0.207 ng/Kg 0.144 ng/Kg 0.0957 ng/Kg 1.52 ng/Kg	0.131U ng/Kg 0.118U ng/Kg 0.162U ng/Kg 0.0688U ng/Kg 0.207U ng/Kg 0.144U ng/Kg 0.0957U ng/Kg 1.52U ng/Kg
SL-002-SA5DN-SS-0.0-0.5	1,2,3,7,8,9-HxCDF	0.408 ng/Kg	0.408U ng/Kg

No field blanks were identified in this SDG.

#### VI. Matrix Spike/Matrix Spike Duplicates

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

#### VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

#### VIII. Regional Quality Assurance and Quality Control

Not applicable.

#### IX. Internal Standards

All internal standard recoveries were within QC limits.

#### X. Target Compound Identifications

All target compound identifications were within validation criteria.

#### XI. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX090	All compounds reported below the RL.	J (all detects)	A

## XII. System Performance

The system performance was acceptable.

## XIII. Overall Assessment of Data

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

## XIV. Field Duplicates

Samples SL-057-SA5DN-SS-0.0-0.5 and DUP06-SA5DN-QC-052411 were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-057-SA5DN-SS-0.0-0.5	DUP06-SA5DN-QC-052411			
2,3,7,8-TCDF	0.0807	0.03501U	200 (≤50)	J (all detects) UJ (all non-detects)	A
2,3,7,8-TCDD	0.0233U	0.0306	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDF	0.152	0.135	12 (≤50)	-	-
2,3,4,7,8-PeCDF	0.164	0.189	14 (≤50)	-	-
1,2,3,7,8-PeCDD	0.126	0.0722	54 (≤50)	J (all detects)	A
1,2,3,4,7,8-HxCDF	0.333	0.120	94 (≤50)	J (all detects)	A
1,2,3,6,7,8-HxCDF	0.151	0.0804	61 (≤50)	J (all detects)	A
2,3,4,6,7,8-HxCDF	0.159	0.112	35 (≤50)	-	-
1,2,3,4,7,8-HxCDD	0.123	0.0914	29 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.382	0.243	44 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.404	0.248	48 (≤50)	-	-
1,2,3,7,8,9-HxCDF	0.282	0.233	19 (≤50)	-	-

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-057-SA5DN-SS-0.0-0.5	DUP06-SA5DN-QC-052411			
1,2,3,4,6,7,8-HpCDF	0.876	0.537	48 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	4.90	3.07	46 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.106	0.0704	40 (≤50)	-	-
OCDD	44.8	34.9	25 (≤50)	-	-
OCDF	1.59	1.32	19 (≤50)	-	-

**Santa Susana Field Laboratory  
Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX090**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX090	SL-057-SA5DN-SS-0.0-0.5 SL-185-SA5DN-SS-0.0-0.5 DUP06-SA5DN-QC-052411 SL-001-SA5DN-SS-0.0-0.5 SL-002-SA5DN-SS-0.0-0.5 SL-004-SA5DN-SS-0.0-0.5 SL-005-SA5DN-SS-0.0-0.5 SL-006-SA5DN-SS-0.0-0.5 SL-060-SA5DN-SS-0.0-0.5 SL-190-SA5DN-SS-0.0-0.5 SL-199-SA5DN-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and CRQLs (Z)
DX090	SL-057-SA5DN-SS-0.0-0.5 DUP06-SA5DN-QC-052411	2,3,7,8-TCDF 2,3,7,8-TCDD	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)
DX090	SL-057-SA5DN-SS-0.0-0. DUP06-SA5DN-QC-052411	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF	J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)

**Santa Susana Field Laboratory  
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX090**

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX090	SL-057-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.152U ng/Kg 0.164U ng/Kg 0.151U ng/Kg 0.159U ng/Kg 0.123U ng/Kg 0.282U ng/Kg 0.106U ng/Kg 1.59U ng/Kg	A	B
DX090	SL-185-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0636U ng/Kg 0.174U ng/Kg 0.105U ng/Kg 0.108U ng/Kg 0.0661U ng/Kg 0.183U ng/Kg 0.209U ng/Kg 0.446U ng/Kg 0.0789U ng/Kg 0.827U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX090	DUP06-SA5DN-QC-052411	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.189U ng/Kg 0.120U ng/Kg 0.0804U ng/Kg 0.112U ng/Kg 0.0914U ng/Kg 0.233U ng/Kg 0.537U ng/Kg 0.0704U ng/Kg 1.32U ng/Kg	A	B
DX090	SL-004-SA5DN-SS-0.0-0.5	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.164U ng/Kg 0.178U ng/Kg 0.165U ng/Kg 0.165U ng/Kg 0.289U ng/Kg 0.113U ng/Kg 0.519U ng/Kg	A	B
DX090	SL-190-SA5DN-SS-0.0-0.5	1,2,3,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.131U ng/Kg 0.118U ng/Kg 0.162U ng/Kg 0.0688U ng/Kg 0.207U ng/Kg 0.144U ng/Kg 0.0957U ng/Kg 1.52U ng/Kg	A	B
DX090	SL-002-SA5DN-SS-0.0-0.5	1,2,3,7,8,9-HxCDF	0.408U ng/Kg	A	B

**Santa Susana Field Laboratory  
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX090**

No Sample Data Qualified in this SDG

LDC #: 2603121  
 SDG #: DX090  
 Laboratory: Lancaster Laboratories

**VALIDATION COMPLETENESS WORKSHEET**  
 Level IV

Date: 8/19/11  
 Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>5/24 - 5/25/11</u>
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	<u>% RSD ≤ 20/35</u>
IV.	Routine calibration/ <del>QA</del>	A	<u>QC limits</u>
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	<u>OPK</u>
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	<u>QC limits</u>
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	A	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	<u>D = 1 + 3</u>
XV.	Field blanks	N	

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

Validated Samples:

1	SL-057-SA5DN-SS-0.0-0.5	11	SL-199-SA5DN-SS-0.0-0.5	21	31
2	SL-185-SA5DN-SS-0.0-0.5	12	SL-057-SA5DN-SS-0.0-0.5MS	22	32
3	DUP06-SA5DN-QC-052411	13	SL-057-SA5DN-SS-0.0-0.5MSD	23	33
4	SL-001-SA5DN-SS-0.0-0.5	14	<u>115900</u>	24	34
5	SL-002-SA5DN-SS-0.0-0.5	15		25	35
6	SL-004-SA5DN-SS-0.0-0.5	16		26	36
7	SL-005-SA5DN-SS-0.0-0.5	17		27	37
8	SL-006-SA5DN-SS-0.0-0.5	18		28	38
9	SL-060-SA5DN-SS-0.0-0.5	19		29	39
10	SL-190-SA5DN-SS-0.0-0.5	20		30	40

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Method:** Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
<b>II. GC/MS Instrument performance check</b>				
Was PFK exact mass 380.9760 verified?	/			
Were the retention time windows established for all homologues?	/			
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers $\leq 25\%$ ?	/			
Is the static resolving power at least 10,000 (10% valley definition)?	/			
Was the mass resolution adequately check with PFK?	/			
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	/			
<b>III. Initial calibration</b>				
Was the initial calibration performed at 5 concentration levels?	/			
Were all percent relative standard deviations (%RSD) $\leq 20\%$ for unlabeled compounds and $< 35\%$ for labeled compounds ?	/			
Did all calibration standards meet the Ion Abundance Ratio criteria?	/			
Was the signal to noise ratio for each target compound $\geq 2.5$ and for each recovery and internal standard $> 10$ ?	/			
<b>IV. Continuing calibration</b>				
Was a routine calibration performed at the beginning and end of each 12 hour period?	/			
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	/			
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	/			
<b>V. Blanks</b>				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank performed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?	/			
<b>VI. Matrix spike/Matrix spike duplicates</b>				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
<b>VII. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	/			

VALIDATION FINDINGS CHECKLIST

Validation Area	Yes	No	NA	Findings/Comments
<b>VIII. Regional Quality Assurance and Quality Control</b>				
Were performance evaluation (PE) samples performed?			/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	
<b>IX. Internal standards</b>				
Were internal standard recoveries within the 25-150% criteria?	/			
Was the minimum S/N ratio of all internal standard peaks $\geq 10$ ?	/			
<b>X. Target compound identification</b>				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within -1 to 3 sec. of the RT of the labeled standard?	/			
For 2,3,7,8 substituted congeners without associated labeled standards, were the relative retention times of the two quantitation peaks within 0.005 time units of the RRT measured in the routine calibration?	/			
For non-2,3,7,8 substituted congeners, were the retention times of the two quantitation peaks within RT established in the performance check solution?	/			
Did compound spectra contain all characteristic ions listed in the table attached?	/			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	/			
Was the signal to noise ratio for each target compound and labeled standard $\geq 2.5$ ?	/			
Does the maximum intensity of each specified characteristic ion coincide within $\pm 2$ seconds (includes labeled standards)?	/			
For PCDF identification, was any signal ( $S/N \geq 2.5$ , at $\pm$ seconds RT) detected in the corresponding PCDF channel?	/			
Was an acceptable lock mass recorded and monitored?	/			
<b>XI. Compound quantitation/CRQLs</b>				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	/			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
<b>XII. System performance</b>				
System performance was found to be acceptable.	/			
<b>XIII. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	/			
<b>XIV. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	/			
Target compounds were detected in the field duplicates.	/			
<b>XV. Field blanks</b>				
Field blanks were identified in this SDG.		/		
Target compounds were detected in the field blanks.			/	

# VALIDATION FINDINGS WORKSHEET

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

**VALIDATION FINDINGS WORKSHEET**  
**Blanks**

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

- Y N N/A Were all samples associated with a method blank?
- Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? \*empc
- Y N N/A Was the method blank contaminated?

Blank extraction date: 06/08/11 Blank analysis date: 06/10/11 Associated samples: All

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification																		
		5X	1	2	3	6	10	5												
	11159101-MB																			
I	0.0269*	0.1345	0.152*U	0.0636*U							0.131U									
J	0.0558*	0.279	0.164*U	0.174*U	0.189U															
K	0.0475*	0.2375			0.120*U	0.164U														
L	0.0493	0.2465	0.151U	0.105*U	0.0804U	0.178U					0.118U									
M	0.0739*	0.3695	0.159U	0.108*U	0.112*U	0.165U					0.162U									
C	0.0419*	0.2095	0.123U	0.0661*U	0.0914*U						0.0688U									
D	0.0307*	0.1535																		
E	0.0427*	0.2135		0.183*U																
N	0.0885*	0.4425	0.282U	0.209*U	0.233*U	0.165U					0.144U									0.408/U
O	0.118	0.59		0.446*U	0.537U	0.289U														
F	0.182*	0.91																		
P	0.0736*	0.368	0.106U	0.0789*U	0.0704*U	0.113U					0.0957*U									
G	0.425	2.125																		
Q	0.342	1.71	1.59U	0.827U	1.32U	0.519U					1.52U									

LDC#: 26031D21

**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**

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

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Y | N | NA    Were field duplicate pairs identified in this SDG?  
Y | N | NA    Were target analytes detected in the field duplicate pairs?

\*empc

FD

Compound	Concentration (ng/Kg)		≤ 50 RPD	
	1	3		
H	0.0807	0.03501U	<del>79</del> 200	J/W/A ↓
A	0.0233U	0.0306*	200	↓
I	0.152*	0.135	12	
J	0.164*	0.189	14	
B	0.126	0.0722*	54	J/A det
K	0.333	0.120*	94	↓
L	0.151	0.0804	61	↓
M	0.159	0.112*	35	
C	0.123	0.0914*	29	
D	0.382	0.243	44	
E	0.404	0.248	48	
N	0.282	0.233*	19	
O	0.876	0.537	48	
F	4.90	3.07	46	
P	0.106	0.0704*	40	
G	44.8	34.9	25	
Q	1.59	1.32	19	

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**VALIDATION FINDINGS WORKSHEET**  
**Initial Calibration Calculation Verification**

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

$$\text{average RRF} = \text{sum of the RRFs} / \text{number of standards}$$

$$\%RSD = 100 * (S/X)$$

$A_x$  = Area of compound,  $A_{is}$  = Area of associated internal standard  
 $C_x$  = Concentration of compound,  $C_{is}$  = Concentration of internal standard  
 $S$  = Standard deviation of the RRFs,  $X$  = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				Average RRF (initial)	Average RRF (initial)	RRF (0.53 std)	RRF (0.53 std)	RRF (0.53 std)	RRF (0.53 std)		
1	1CAL	6/3/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	0.938	0.938	0.952	0.952	3.68	3.68	3.68	3.68
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	1.14	1.14	1.129	1.129	4.34	4.34	4.34	4.34
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	0.898	0.898	0.951	0.951	6.50	6.50	6.50	6.50
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	0.981	0.981	1.037	1.037	4.43	4.43	4.43	4.43
			OCDF ( <sup>13</sup> C-OCDF)	0.885	0.885	0.917	0.917	2.80	2.80	2.80	2.80
2	1CAL CONF	5/11/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	0.940	0.940	0.874	0.874	8.10	8.10	8.10	8.10
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)								
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)								
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)								
			OCDF ( <sup>13</sup> C-OCDF)								
3			2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)								
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)								
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)								
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)								
			OCDF ( <sup>13</sup> C-OCDF)								

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

**VALIDATION FINDINGS WORKSHEET**  
**Routine Calibration Results Verification**

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

% Difference =  $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$       Where:    ave. RRF = initial calibration average RRF  
 RRF =  $(A_x)(C_{is}) / (A_{is})(C_x)$       RRF = continuing calibration RRF  
 A<sub>x</sub> = Area of compound,      A<sub>is</sub> = Area of associated internal standard  
 C<sub>x</sub> = Concentration of compound,      C<sub>is</sub> = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported		Recalculated	
					RRF (CC)	%R	RRF (CC)	%R
1	CEN 10:10	6/10/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	9.970	9.970	9.970	100
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	9.640	9.640	9.640	96
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	50.0	52.620	52.620	52.620	105
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	50.0	52.650	52.650	52.650	105
			OCDF ( <sup>13</sup> C-OCDF)	100.0	108.470	108.470	108.470	108
2	CEN 18:42	6/11/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	10.530	10.530	10.530	105
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	9.960	9.960	9.960	100
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	50.0	53.60	53.60	53.60	107
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	50.0	53.540	53.540	53.540	107
			OCDF ( <sup>13</sup> C-OCDF)	100.0	108.770	108.770	108.770	109
3	CEN 12:11	6/13/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	10.090	10.090	10.090	101
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	9.930	9.930	9.930	99
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	50.0	55.330	55.330	55.330	111
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	50.0	54.670	54.670	54.670	109
			OCDF ( <sup>13</sup> C-OCDF)	100	111.150	111.150	111.150	111

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

**VALIDATION FINDINGS WORKSHEET**  
**Routine Calibration Results Verification**

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

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

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Reported		Recalculated		Reported	Recalculated
					RRF (CC)	%R	RRF (CC)	%D		
1	CEV 0040	6/14/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	10.420	104	10.420	104	104	104
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	10.200	102	10.200	102	102	102
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	50.0	53.900	108	53.900	108	108	108
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	50.0	53.360	107	53.360	107	107	107
			OCDF ( <sup>13</sup> C-OCDF)	100.0	106.170	106	106.170	106	106	106
2			2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)							
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)							
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)							
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)							
			OCDF ( <sup>13</sup> C-OCDF)							
3			2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)							
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)							
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)							
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)							
			OCDF ( <sup>13</sup> C-OCDF)							

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

**VALIDATION FINDINGS WORKSHEET**  
**Matrix Spike/Matrix Spike Duplicates Results Verification**

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

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

% Recovery =  $100 * (SSR - SR) / SA$       Where: SSR = Spiked sample result, SR = Sample result  
 SA = Spike added

RPD =  $100 * |MSR - MSDR| / (MSR + MSDR)$       MSR = Matrix spike percent recovery      MSDR = Matrix spike duplicate percent recovery

MS/MSD samples: 12 + 13

Compound	Spike Added (ng/kg)		Sample Concentration (ng/kg)	Spiked Sample Concentration (ng/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		Reported RPD	Recalculated RPD
	MS	MSD		MS	MSD	Reported	Recalc	Reported	Recalc		
2,3,7,8-TCDD	22.6	22.6	ND	19.6	20.2	87	87	90	90	3	3
1,2,3,7,8-PeCDD	113	113	0.126	105	106	93	93	94	94	1	1
1,2,3,4,7,8-HxCDD	113	113	0.123	105	107	93	93	94	94	1	1
1,2,3,4,7,8,9-HpCDF	113	113	0.106	112	111	99	99	99	99	0	0
OCDF	226	226	223 1.59	228 223	228	98	98	100	100	2	2

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



Descriptor	Accurate mass <sup>(a)</sup>	Ion ID	Elemental Composition	Analyte	Descriptor	Accurate Mass <sup>(a)</sup>	Ion ID	Elemental Composition	Analyte		
1	303.9016	M	C <sub>12</sub> H <sub>4</sub> <sup>35</sup> Cl <sub>4</sub> O	TCDF	4	407.7818	M+2	C <sub>12</sub> H <sub>35</sub> Cl <sub>9</sub> <sup>37</sup> ClO	HpCDF		
	305.8987	M+2	C <sub>12</sub> H <sub>4</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> Cl <sub>10</sub>	TCDF		409.7788	M+4	C <sub>12</sub> H <sub>35</sub> Cl <sub>8</sub> <sup>37</sup> Cl <sub>10</sub> O	HpCDF		
	315.9419	M	<sup>13</sup> C <sub>12</sub> H <sub>4</sub> <sup>35</sup> Cl <sub>4</sub> O	TCDF (S)		417.8250	M	<sup>13</sup> C <sub>12</sub> H <sup>35</sup> Cl <sub>7</sub> O	HpCDF (S)		
	317.9389	M+2	<sup>13</sup> C <sub>12</sub> H <sub>4</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> ClO	TCDF (S)		419.8220	M+2	<sup>13</sup> C <sub>12</sub> H <sup>35</sup> Cl <sub>6</sub> <sup>37</sup> ClO	HpCDF		
	319.8965	M	C <sub>12</sub> H <sub>4</sub> <sup>35</sup> Cl <sub>4</sub> O <sub>2</sub>	TCDD		423.7767	M+2	C <sub>12</sub> H <sup>35</sup> Cl <sub>6</sub> <sup>37</sup> ClO <sub>2</sub>	HpCDD		
	321.8936	M+2	C <sub>12</sub> H <sub>4</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> ClO <sub>2</sub>	TCDD		425.7737	M+4	C <sub>12</sub> H <sup>35</sup> Cl <sub>5</sub> <sup>37</sup> ClO <sub>2</sub>	HpCDD		
	331.9368	M	<sup>13</sup> C <sub>12</sub> H <sub>4</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> ClO <sub>2</sub>	TCDD (S)		435.8169	M+2	<sup>13</sup> C <sub>12</sub> H <sup>35</sup> Cl <sub>5</sub> <sup>37</sup> ClO <sub>2</sub>	HpCDD (S)		
	333.9338	M+2	<sup>13</sup> C <sub>12</sub> H <sub>4</sub> <sup>35</sup> Cl <sub>2</sub> <sup>37</sup> ClO <sub>2</sub>	TCDD (S)		437.8140	M+4	<sup>13</sup> C <sub>12</sub> H <sup>35</sup> Cl <sub>4</sub> <sup>37</sup> ClO <sub>2</sub>	HpCDD (S)		
	375.8364	M+2	C <sub>12</sub> H <sub>4</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> ClO	HxCDFE		479.7165	M+4	C <sub>12</sub> H <sup>35</sup> Cl <sub>7</sub> <sup>37</sup> Cl <sub>2</sub> O	NGDPE		
	[354.9792]	LOCK	C <sub>9</sub> F <sub>13</sub>	PFK		[430.9728]	LOCK	C <sub>9</sub> F <sub>17</sub>	PFK		
	2	339.8597	M+2	C <sub>12</sub> H <sub>3</sub> <sup>35</sup> Cl <sub>4</sub> <sup>37</sup> ClO		PeCDF	5	441.7428	M+2	C <sub>12</sub> <sup>35</sup> Cl <sub>7</sub> <sup>37</sup> ClO	OCDF
		341.8567	M+4	C <sub>12</sub> H <sub>3</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O		PeCDF		443.7399	M+4	C <sub>12</sub> <sup>35</sup> Cl <sub>6</sub> <sup>37</sup> Cl <sub>2</sub> O	OCDF
		351.9000	M+2	<sup>13</sup> C <sub>12</sub> H <sub>3</sub> <sup>35</sup> Cl <sub>4</sub> <sup>37</sup> ClO		PeCDF (S)		457.7377	M+2	<sup>13</sup> C <sub>12</sub> <sup>35</sup> Cl <sub>7</sub> <sup>37</sup> ClO <sub>2</sub>	OCDD
353.8970		M+4	<sup>13</sup> C <sub>12</sub> H <sub>3</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O	PeCDF (S)	459.7348	M+4		C <sub>12</sub> <sup>35</sup> Cl <sub>6</sub> <sup>37</sup> Cl <sub>2</sub> O <sub>2</sub>	OCDD		
355.8546		M+2	C <sub>12</sub> H <sub>3</sub> <sup>35</sup> Cl <sub>4</sub> <sup>37</sup> ClO <sub>2</sub>	PeCDD	469.7780	M+2		<sup>13</sup> C <sub>12</sub> <sup>35</sup> Cl <sub>7</sub> <sup>37</sup> ClO <sub>2</sub>	OCDD (S)		
357.8516		M+4	C <sub>12</sub> H <sub>3</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O <sub>2</sub>	PeCDD	471.7750	M+4		<sup>13</sup> C <sub>12</sub> <sup>35</sup> Cl <sub>6</sub> <sup>37</sup> Cl <sub>2</sub> O <sub>2</sub>	OCDD (S)		
367.8949		M+2	<sup>13</sup> C <sub>12</sub> H <sub>3</sub> <sup>35</sup> Cl <sub>4</sub> <sup>37</sup> ClO <sub>2</sub>	PeCDD (S)	513.6775	M+4		C <sub>12</sub> <sup>35</sup> Cl <sub>9</sub> <sup>37</sup> Cl <sub>2</sub> O	DCDPE		
369.8919		M+4	<sup>13</sup> C <sub>12</sub> H <sub>3</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O <sub>2</sub>	PeCDD (S)	[422.9278]	LOCK		C <sub>10</sub> F <sub>17</sub>	PFK		
409.7974		M+2	C <sub>12</sub> H <sub>3</sub> <sup>35</sup> Cl <sub>4</sub> <sup>37</sup> ClO	HxCDFE							
[354.9792]		LOCK	C <sub>9</sub> F <sub>13</sub>	PFK							
3		373.8208	M+2	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>5</sub> <sup>37</sup> ClO	HxCDF						
		375.8178	M+4	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>4</sub> <sup>37</sup> Cl <sub>2</sub> O	HxCDF						
		383.8639	M	<sup>13</sup> C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>5</sub> <sup>37</sup> ClO	HxCDF (S)						
	385.8610	M+2	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>4</sub> <sup>37</sup> ClO	HxCDF (S)							
	389.8156	M+2	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O	HxCDD							
	391.8127	M+4	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>2</sub> <sup>37</sup> Cl <sub>2</sub> O <sub>2</sub>	HxCDD							
	401.8559	M+2	<sup>13</sup> C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>4</sub> <sup>37</sup> ClO <sub>2</sub>	HxCDD (S)							
	403.8529	M+4	<sup>13</sup> C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O <sub>2</sub>	HxCDD (S)							
	445.7555	M+4	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>4</sub> <sup>37</sup> Cl <sub>2</sub> O	OCDFE							
	[430.9728]	LOCK	C <sub>9</sub> F <sub>17</sub>	PFK							

(a) The following nucleic masses were used:

- H = 1.007825
- C = 12.000000
- <sup>13</sup>C = 13.003355
- F = 18.9984
- O = 15.994915
- <sup>35</sup>Cl = 34.968853
- <sup>37</sup>Cl = 36.965903

S = internal/recovery standard



# **SAMPLE DELIVERY GROUP**

**DX091**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
25-May-2011	EB08-SA5DN-SB-052511	6298931	EB	METHOD	1613B	III
25-May-2011	EB07-SA5DN-SS-052511	6298930	EB	METHOD	1613B	III
25-May-2011	DUP08-SA5DN-QC-052411	6298929	FD	METHOD	1613B	III
25-May-2011	SL-205-SA5DN-SS-0.0-0.5	6298928	N	METHOD	1613B	III
25-May-2011	SL-201-SA5DN-SS-0.0-0.5MSD	6298927	MSD	METHOD	1613B	III
25-May-2011	SL-201-SA5DN-SS-0.0-0.5MS	6298926	MS	METHOD	1613B	III
25-May-2011	SL-201-SA5DN-SS-0.0-0.5	6298925	N	METHOD	1613B	III
25-May-2011	SL-200-SA5DN-SS-0.0-0.5	6298924	N	METHOD	1613B	III
26-May-2011	SL-001-SA8N-SB-9.0-10.0	6300335	N	METHOD	1613B	III
26-May-2011	SL-001-SA8N-SB-4.0-5.0	6300334	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	<b>Method:</b>	1613B	<b>Matrix:</b>	AQ
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Sample ID: EB07-SA5DN-SS-052511

Collected: 5/25/2011 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.98	JBQ	0.552	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.433	JB	0.218	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.393	JBQ	0.255	MDL	10.5	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.241	JQ	0.219	MDL	10.5	PQL	pg/L	J	Z
1,2,3,4,7,8-HXCDF	0.231	JBQ	0.136	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.557	JB	0.232	MDL	10.5	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.139	JBQ	0.130	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.397	JBQ	0.219	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.287	JBQ	0.137	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.297	JBQ	0.212	MDL	10.5	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.276	JBQ	0.108	MDL	10.5	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.507	JBQ	0.0979	MDL	10.5	PQL	pg/L	U	B
2,3,7,8-TCDD	0.234	JQ	0.202	MDL	2.09	PQL	pg/L	J	Z
OCDD	12.2	JB	0.604	MDL	20.9	PQL	pg/L	U	B
OCDF	1.25	JBQ	0.568	MDL	20.9	PQL	pg/L	U	B

Sample ID: EB08-SA5DN-SB-052511

Collected: 5/25/2011 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.50	JB	0.313	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.48	JB	0.164	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.685	JB	0.181	MDL	10.9	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.675	JB	0.196	MDL	10.9	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.534	JB	0.228	MDL	10.9	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.625	JBQ	0.187	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.458	JBQ	0.212	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.718	JB	0.196	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.413	JBQ	0.266	MDL	10.9	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.302	JB	0.155	MDL	10.9	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.541	JB	0.173	MDL	10.9	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.814	JB	0.147	MDL	10.9	PQL	pg/L	U	B
OCDD	8.39	JB	0.384	MDL	21.8	PQL	pg/L	U	B
OCDF	2.33	JBQ	0.411	MDL	21.8	PQL	pg/L	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: DUP08-SA5DN-QC-052411      Collected: 5/25/2011 1:53:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.44	JB	0.0364	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.782	JB	0.0144	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.106	JBQ	0.0324	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0781	JB	0.0309	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.848	JB	0.0300	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.257	JB	0.0336	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.150	JB	0.0241	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.241	JB	0.0319	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.169	JBQ	0.0370	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0828	JB	0.0363	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.179	JB	0.0401	MDL	5.85	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.262	JB	0.0266	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.591	JQ	0.0433	MDL	5.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0311	JBQ	0.0235	MDL	1.17	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.730	J	0.0837	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	1.53	JBQ	0.0493	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-001-SA8N-SB-4.0-5.0      Collected: 5/26/2011 11:05:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.618	JB	0.0335	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.150	JBQ	0.0113	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0495	JBQ	0.0275	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0314	JBQ	0.0233	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0339	JBQ	0.0243	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0529	JB	0.0229	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0378	JBQ	0.0172	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0557	JBQ	0.0227	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0314	JBQ	0.0249	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0469	JBQ	0.0295	MDL	5.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0356	JBQ	0.0143	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0850	JB	0.0153	MDL	5.89	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0627	J	0.0169	MDL	5.89	PQL	ng/Kg	J	Z
OCDD	2.89	JB	0.0327	MDL	11.8	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA								
<b>Method:</b>	1613B	<b>Matrix:</b>	SO						

Sample ID: SL-001-SA8N-SB-4.0-5.0      Collected: 5/26/2011 11:05:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.419	JB	0.0770	MDL	11.8	PQL	ng/Kg	U	B

Sample ID: SL-001-SA8N-SB-9.0-10.0      Collected: 5/26/2011 11:35:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.329	JBQ	0.0317	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0984	JBQ	0.00832	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0414	JBQ	0.0197	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0404	JBQ	0.0218	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0321	JBQ	0.0137	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0226	JBQ	0.0214	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0206	JBQ	0.0204	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0244	JB	0.0152	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0729	JB	0.0150	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0491	JQ	0.0162	MDL	5.59	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0268	JB	0.0244	MDL	1.12	PQL	ng/Kg	U	B
OCDD	1.20	JB	0.0282	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.283	JB	0.0577	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-200-SA5DN-SS-0.0-0.5      Collected: 5/25/2011 2:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.70	JB	0.0236	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.718	JB	0.0101	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0972	JB	0.0231	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0757	JBQ	0.0200	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0944	JB	0.0170	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.163	JB	0.0208	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.122	JB	0.0140	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.187	JB	0.0197	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JB	0.0221	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0617	JB	0.0191	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.231	JB	0.0160	MDL	5.69	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.174	JB	0.0158	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.300	J	0.0179	MDL	5.69	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	SVOA	
<b>Method:</b>	1613B	<b>Matrix:</b> SO

Sample ID: SL-200-SA5DN-SS-0.0-0.5      Collected: 5/25/2011 2:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0303	JBQ	0.0131	MDL	1.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.216	JQ	0.0349	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	1.61	JB	0.0356	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-201-SA5DN-SS-0.0-0.5      Collected: 5/25/2011 1:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.71	JB	0.0244	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.831	JB	0.00781	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.115	JB	0.0192	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0725	JB	0.0207	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.743	JB	0.0167	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.237	JBQ	0.0220	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.160	JB	0.0135	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.220	JB	0.0208	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.155	JBQ	0.0234	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0739	JBQ	0.0221	MDL	5.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.948	JB	0.0244	MDL	5.81	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.256	JBQ	0.0151	MDL	5.81	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.634	J	0.0277	MDL	5.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0133	U	0.0133	MDL	1.16	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.654	J	0.0586	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	1.71	JB	0.0340	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-205-SA5DN-SS-0.0-0.5      Collected: 5/25/2011 2:27:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.33	JB	0.0404	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.26	JB	0.0166	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.298	JB	0.0411	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.221	JB	0.0354	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.891	JB	0.0344	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.395	JB	0.0373	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.288	JB	0.0273	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.360	JB	0.0369	MDL	5.82	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-205-SA5DN-SS-0.0-0.5

Collected: 5/25/2011 2:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.336	JB	0.0485	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.168	JB	0.0368	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.256	JBQ	0.0345	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.373	JB	0.0307	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.701	J	0.0381	MDL	5.82	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.545	JQ	0.0745	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	2.59	JB	0.0646	MDL	11.6	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

## Reason Code Legend

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

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## **Enclosure I**

### **EPA Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

DX091

# Method Blank Outlier Report

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1540B370528	6/7/2011 5:28:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD 2,3,7,8-TCDF OCDD OCDF	3.82 pg/L 2.66 pg/L 1.23 pg/L 0.888 pg/L 1.05 pg/L 0.712 pg/L 1.06 pg/L 1.50 pg/L 1.01 pg/L 1.18 pg/L 0.895 pg/L 1.18 pg/L 0.981 pg/L 0.343 pg/L 0.368 pg/L 9.88 pg/L 3.74 pg/L	EB08-SA5DN-SB-052511
BLK1710B371926	6/23/2011 7:26:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	6.67 pg/L 1.14 pg/L 0.982 pg/L 0.509 pg/L 0.363 pg/L 0.434 pg/L 0.765 pg/L 0.608 pg/L 0.249 pg/L 0.310 pg/L 0.530 pg/L 0.557 pg/L 13.7 pg/L 1.25 pg/L	EB07-SA5DN-SS-052511

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB07-SA5DN-SS-052511(RES)	1,2,3,4,6,7,8-HPCDD	5.98 pg/L	5.98U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,4,6,7,8-HPCDF	0.433 pg/L	0.433U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,4,7,8,9-HPCDF	0.393 pg/L	0.393U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,4,7,8-HXCDF	0.231 pg/L	0.231U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,6,7,8-HXCDD	0.557 pg/L	0.557U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,6,7,8-HXCDF	0.139 pg/L	0.139U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8,9-HXCDD	0.397 pg/L	0.397U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8,9-HXCDF	0.287 pg/L	0.287U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8-PECDD	0.297 pg/L	0.297U pg/L
EB07-SA5DN-SS-052511(RES)	1,2,3,7,8-PECDF	0.276 pg/L	0.276U pg/L
EB07-SA5DN-SS-052511(RES)	2,3,4,7,8-PECDF	0.507 pg/L	0.507U pg/L
EB07-SA5DN-SS-052511(RES)	OCDD	12.2 pg/L	12.2U pg/L
EB07-SA5DN-SS-052511(RES)	OCDF	1.25 pg/L	1.25U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,6,7,8-HPCDD	2.50 pg/L	2.50U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,6,7,8-HPCDF	1.48 pg/L	1.48U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,7,8,9-HPCDF	0.685 pg/L	0.685U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,4,7,8-HXCDF	0.675 pg/L	0.675U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,6,7,8-HXCDD	0.534 pg/L	0.534U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,6,7,8-HXCDF	0.625 pg/L	0.625U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8,9-HXCDD	0.458 pg/L	0.458U pg/L

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8,9-HXCDF	0.718 pg/L	0.718U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8-PECDD	0.413 pg/L	0.413U pg/L
EB08-SA5DN-SB-052511(RES)	1,2,3,7,8-PECDF	0.302 pg/L	0.302U pg/L
EB08-SA5DN-SB-052511(RES)	2,3,4,6,7,8-HXCDF	0.541 pg/L	0.541U pg/L
EB08-SA5DN-SB-052511(RES)	2,3,4,7,8-PECDF	0.814 pg/L	0.814U pg/L
EB08-SA5DN-SB-052511(RES)	OCDD	8.39 pg/L	8.39U pg/L
EB08-SA5DN-SB-052511(RES)	OCDF	2.33 pg/L	2.33U pg/L

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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BLK1590B372132	6/11/2011 9:32:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,7,8-TCDD OCDD OCDF	0.200 ng/Kg 0.156 ng/Kg 0.109 ng/Kg 0.0371 ng/Kg 0.0750 ng/Kg 0.0439 ng/Kg 0.0456 ng/Kg 0.0360 ng/Kg 0.0768 ng/Kg 0.0516 ng/Kg 0.0331 ng/Kg 0.0650 ng/Kg 0.0249 ng/Kg 0.698 ng/Kg 0.500 ng/Kg	DUP08-SA5DN-QC-052411 SL-001-SA8N-SB-4.0-5.0 SL-001-SA8N-SB-9.0-10.0 SL-200-SA5DN-SS-0.0-0.5 SL-201-SA5DN-SS-0.0-0.5 SL-205-SA5DN-SS-0.0-0.5
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
DUP08-SA5DN-QC-052411(RES)	1,2,3,4,7,8,9-HPCDF	0.106 ng/Kg	0.106U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,4,7,8-HxCDD	0.0781 ng/Kg	0.0781U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,6,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,7,8,9-HXCDF	0.169 ng/Kg	0.169U ng/Kg
DUP08-SA5DN-QC-052411(RES)	1,2,3,7,8-PECDD	0.0828 ng/Kg	0.0828U ng/Kg
DUP08-SA5DN-QC-052411(RES)	2,3,4,6,7,8-HXCDF	0.262 ng/Kg	0.262U ng/Kg
DUP08-SA5DN-QC-052411(RES)	2,3,7,8-TCDD	0.0311 ng/Kg	0.0311U ng/Kg
DUP08-SA5DN-QC-052411(RES)	OCDF	1.53 ng/Kg	1.53U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.618 ng/Kg	0.618U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0314 ng/Kg	0.0314U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0529 ng/Kg	0.0529U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 1613B**  
**Matrix: SO**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0378 ng/Kg	0.0378U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0557 ng/Kg	0.0557U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0314 ng/Kg	0.0314U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0469 ng/Kg	0.0469U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0356 ng/Kg	0.0356U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	OCDD	2.89 ng/Kg	2.89U ng/Kg
SL-001-SA8N-SB-4.0-5.0(RES)	OCDF	0.419 ng/Kg	0.419U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.329 ng/Kg	0.329U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0984 ng/Kg	0.0984U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0414 ng/Kg	0.0414U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0404 ng/Kg	0.0404U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0226 ng/Kg	0.0226U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0206 ng/Kg	0.0206U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0244 ng/Kg	0.0244U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0729 ng/Kg	0.0729U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0268 ng/Kg	0.0268U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	OCDD	1.20 ng/Kg	1.20U ng/Kg
SL-001-SA8N-SB-9.0-10.0(RES)	OCDF	0.283 ng/Kg	0.283U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.718 ng/Kg	0.718U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0972 ng/Kg	0.0972U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0757 ng/Kg	0.0757U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0944 ng/Kg	0.0944U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.163 ng/Kg	0.163U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.122 ng/Kg	0.122U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0817 ng/Kg	0.0817U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.174 ng/Kg	0.174U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0303 ng/Kg	0.0303U ng/Kg
SL-200-SA5DN-SS-0.0-0.5(RES)	OCDF	1.61 ng/Kg	1.61U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0725 ng/Kg	0.0725U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0739 ng/Kg	0.0739U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.256 ng/Kg	0.256U ng/Kg
SL-201-SA5DN-SS-0.0-0.5(RES)	OCDF	1.71 ng/Kg	1.71U ng/Kg
SL-205-SA5DN-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.298 ng/Kg	0.298U ng/Kg
SL-205-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.336 ng/Kg	0.336U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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*The following samples and their listed target analytes were qualified due to contamination reported in this blank*

Sample ID	Analyte	Reported Result	Modified Final Result
SL-205-SA5DN-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.168 ng/Kg	0.168U ng/Kg

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 160.3M**  
**Matrix: SO**

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-201-SA5DN-SS-0.0-0.5	DUP08-SA5DN-QC-052411			
MOISTURE	15.5	14.8	5		No Qualifiers Applied

**Method: 1613B**  
**Matrix: SO**

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag	
	SL-201-SA5DN-SS-0.0-0.5	DUP08-SA5DN-QC-052411				
1,2,3,4,6,7,8-HPCDD	3.71	3.44	8	50.00	No Qualifiers Applied	
1,2,3,4,6,7,8-HPCDF	0.831	0.782	6	50.00		
1,2,3,4,7,8,9-HPCDF	0.115	0.106	8	50.00		
1,2,3,4,7,8-HxCDD	0.0725	0.0781	7	50.00		
1,2,3,4,7,8-HxCDF	0.743	0.848	13	50.00		
1,2,3,6,7,8-HxCDD	0.237	0.257	8	50.00		
1,2,3,6,7,8-HxCDF	0.160	0.150	6	50.00		
1,2,3,7,8,9-HxCDD	0.220	0.241	9	50.00		
1,2,3,7,8,9-HxCDF	0.155	0.169	9	50.00		
1,2,3,7,8-PECDD	0.0739	0.0828	11	50.00		
2,3,4,6,7,8-HxCDF	0.256	0.262	2	50.00		
2,3,4,7,8-PECDF	0.634	0.591	7	50.00		
2,3,7,8-TCDF	0.654	0.730	11	50.00		
OCDD	31.5	29.3	7	50.00		
OCDF	1.71	1.53	11	50.00		
1,2,3,7,8-PECDF	0.948	0.179	136	50.00		J(all detects)
2,3,7,8-TCDD	1.16 U	0.0311	200	50.00		UJ(all non-detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 1613B**  
**Matrix: AQ**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB07-SA5DN-SS-052511	1,2,3,4,6,7,8-HPCDD	JBQ	5.98	10.5	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.433	10.5	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.393	10.5	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JQ	0.241	10.5	PQL	pg/L	
	1,2,3,4,7,8-HxCDF	JBQ	0.231	10.5	PQL	pg/L	
	1,2,3,6,7,8-HxCDD	JB	0.557	10.5	PQL	pg/L	
	1,2,3,6,7,8-HxCDF	JBQ	0.139	10.5	PQL	pg/L	
	1,2,3,7,8,9-HxCDD	JBQ	0.397	10.5	PQL	pg/L	
	1,2,3,7,8,9-HxCDF	JBQ	0.287	10.5	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.297	10.5	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.276	10.5	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.507	10.5	PQL	pg/L	
	2,3,7,8-TCDD	JQ	0.234	2.09	PQL	pg/L	
	OCDD	JB	12.2	20.9	PQL	pg/L	
OCDF	JBQ	1.25	20.9	PQL	pg/L		
EB08-SA5DN-SB-052511	1,2,3,4,6,7,8-HPCDD	JB	2.50	10.9	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.48	10.9	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.685	10.9	PQL	pg/L	
	1,2,3,4,7,8-HxCDF	JB	0.675	10.9	PQL	pg/L	
	1,2,3,6,7,8-HxCDD	JB	0.534	10.9	PQL	pg/L	
	1,2,3,6,7,8-HxCDF	JBQ	0.625	10.9	PQL	pg/L	
	1,2,3,7,8,9-HxCDD	JBQ	0.458	10.9	PQL	pg/L	
	1,2,3,7,8,9-HxCDF	JB	0.718	10.9	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.413	10.9	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.302	10.9	PQL	pg/L	
	2,3,4,6,7,8-HxCDF	JB	0.541	10.9	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.814	10.9	PQL	pg/L	
	OCDD	JB	8.39	21.8	PQL	pg/L	
	OCDF	JBQ	2.33	21.8	PQL	pg/L	

**Method: 1613B**  
**Matrix: SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA5DN-QC-052411	1,2,3,4,6,7,8-HPCDD	JB	3.44	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.782	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.106	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0781	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.848	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.257	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.150	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.241	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.169	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0828	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.179	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.262	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.591	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0311	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.730	1.17	PQL	ng/Kg	
	OCDF	JBQ	1.53	11.7	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 1613B**  
**Matrix: SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-001-SA8N-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.618	5.89	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.150	5.89	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0495	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0314	5.89	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0339	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0529	5.89	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0378	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0557	5.89	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0314	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0469	5.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0356	5.89	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0850	5.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.0627	5.89	PQL	ng/Kg	
	OCDD	JB	2.89	11.8	PQL	ng/Kg	
OCDF	JB	0.419	11.8	PQL	ng/Kg		
SL-001-SA8N-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.329	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0984	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0414	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0404	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0321	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0226	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0206	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0244	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0729	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0491	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0268	1.12	PQL	ng/Kg	
	OCDD	JB	1.20	11.2	PQL	ng/Kg	
	OCDF	JB	0.283	11.2	PQL	ng/Kg	
SL-200-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.70	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.718	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0972	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0757	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0944	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.163	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.122	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.187	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.126	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0617	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.231	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.174	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.300	5.69	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0303	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.216	1.14	PQL	ng/Kg	
	OCDF	JB	1.61	11.4	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX091

Laboratory: LL

EDD Filename: DX091\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 1613B**  
**Matrix: SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-201-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.71	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.831	5.81	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.115	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0725	5.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.743	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.237	5.81	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.160	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.220	5.81	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.155	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0739	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.948	5.81	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.256	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.634	5.81	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.654	1.16	PQL	ng/Kg	
	OCDF	JB	1.71	11.6	PQL	ng/Kg	
SL-205-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.33	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.26	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.298	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.221	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.891	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.395	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.288	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.360	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.336	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.168	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.256	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.373	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.701	5.82	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.545	1.16	PQL	ng/Kg	
	OCDF	JB	2.59	11.6	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX093**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-May-2011	SL-179-SA5DN-SS-0.0-0.5	6300380	N	METHOD	1613B	III
26-May-2011	SL-008-SA8N-SB-4.0-5.0	6300368	N	METHOD	1613B	III
26-May-2011	SL-172-SA5DN-SS-0.0-0.5	6300375	N	METHOD	1613B	III
26-May-2011	SL-171-SA5DN-SS-0.0-0.5	6300374	N	METHOD	1613B	III
26-May-2011	SL-008-SA8N-SB-9.0-10.0	6300369	N	METHOD	1613B	III
26-May-2011	SL-170-SA5DN-SS-0.0-0.5	6300373	N	METHOD	1613B	III
26-May-2011	SL-173-SA5DN-SS-0.0-0.5	6300376	N	METHOD	1613B	III
26-May-2011	SL-174-SA5DN-SS-0.0-0.5	6300377	N	METHOD	1613B	III
26-May-2011	SL-175-SA5DN-SS-0.0-0.5	6300378	N	METHOD	1613B	III
26-May-2011	SL-176-SA5DN-SS-0.0-0.5	6300379	N	METHOD	1613B	III
26-May-2011	EB09-SA5DN-SS-052611	6300386	EB	METHOD	1613B	III
26-May-2011	EB11-SA8N-SB-052611	6300387	EB	METHOD	1613B	III
26-May-2011	SL-180-SA5DN-SS-0.0-0.5	6300381	N	METHOD	1613B	III
26-May-2011	SL-181-SA5DN-SS-0.0-0.5	6300382	N	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-4.0-5.0	6300364	N	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-4.0-5.0MS	6300365	MS	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-4.0-5.0MSD	6300366	MSD	METHOD	1613B	III
26-May-2011	SL-182-SA5DN-SS-0.0-0.5	6300383	N	METHOD	1613B	III
26-May-2011	DUP09-SA8N-QC-052611	6300370	FD	METHOD	1613B	III
26-May-2011	SL-183-SA5DN-SS-0.0-0.5	6300384	N	METHOD	1613B	III
26-May-2011	SL-002-SA8N-SB-9.0-10.0	6300367	N	METHOD	1613B	III
26-May-2011	SL-184-SA5DN-SS-0.0-0.5	6300385	N	METHOD	1613B	III
26-May-2011	SL-165-SA5DN-SS-0.0-0.5	6300372	N	METHOD	1613B	III
26-May-2011	SL-164-SA5DN-SS-0.0-0.5	6300371	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>		
<b>Method:</b>	<b>1613B</b>	<b>Matrix:</b>	<b>AQ</b>

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.91	JBQ	0.466	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.601	JB	0.161	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.365	JBQ	0.181	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.256	JB	0.123	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.287	JBQ	0.186	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.345	JB	0.117	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.429	JBQ	0.169	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.183	JBQ	0.126	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.349	JBQ	0.199	MDL	10.8	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.169	JBQ	0.109	MDL	10.8	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.426	JBQ	0.0842	MDL	10.8	PQL	pg/L	U	B
OCDD	14.2	JB	0.504	MDL	21.5	PQL	pg/L	U	B
OCDF	1.12	JBQ	0.453	MDL	21.5	PQL	pg/L	U	B

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.70	JB	0.339	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.71	JB	0.149	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.593	JBQ	0.177	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.457	JBQ	0.218	MDL	10.1	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.439	JBQ	0.224	MDL	10.1	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.323	JBQ	0.232	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.483	JB	0.220	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.579	JBQ	0.224	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.411	JBQ	0.307	MDL	10.1	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.247	JBQ	0.185	MDL	10.1	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.882	JBQ	0.185	MDL	10.1	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.695	JBQ	0.166	MDL	10.1	PQL	pg/L	U	B
2,3,7,8-TCDD	0.301	JBQ	0.300	MDL	2.02	PQL	pg/L	U	B
OCDD	6.60	JB	0.344	MDL	20.2	PQL	pg/L	U	B
OCDF	2.18	JB	0.454	MDL	20.2	PQL	pg/L	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: DUP09-SA8N-QC-052611									
Collected: 5/26/2011 2:45:00									
Analysis Type: RES									
Dilution: 1									
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.193	JBQ	0.0294	MDL	5.86	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.128	JBQ	0.0133	MDL	5.86	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0500	JBQ	0.0192	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0166	U	0.0166	MDL	5.86	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0210	JB	0.0192	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0196	JBQ	0.0174	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0253	JB	0.0158	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0217	JBQ	0.0156	MDL	5.86	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0377	JBQ	0.0155	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0255	JBQ	0.0247	MDL	5.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0318	JBQ	0.0112	MDL	5.86	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0688	JBQ	0.0129	MDL	5.86	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0611	JBQ	0.0111	MDL	5.86	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0221	U	0.0221	MDL	1.17	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0190	U	0.0190	MDL	1.17	PQL	ng/Kg	UJ	FD
OCDD	0.568	JBQ	0.0359	MDL	11.7	PQL	ng/Kg	UJ	B, FD
OCDF	0.173	JBQ	0.0424	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-002-SA8N-SB-4.0-5.0									
Collected: 5/26/2011 2:20:00									
Analysis Type: RES									
Dilution: 1									
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.519	JB	0.0305	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.0465	JB	0.00800	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0386	JBQ	0.0173	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0232	JBQ	0.0188	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.0223	JBQ	0.0149	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0295	JBQ	0.0204	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0257	JBQ	0.0123	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0642	JB	0.0200	MDL	5.87	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0345	JB	0.0202	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0398	JBQ	0.0294	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0511	JB	0.0158	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0277	JB	0.0142	MDL	5.87	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0831	JB	0.0161	MDL	5.87	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-002-SA8N-SB-4.0-5.0 Collected: 5/26/2011 2:20:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0342	JBQ	0.0272	MDL	1.17	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDF	0.0368	JQ	0.0320	MDL	1.17	PQL	ng/Kg	J	Z, FD
OCDD	1.49	JB	0.0299	MDL	11.7	PQL	ng/Kg	UJ	B, FD
OCDF	0.131	JB	0.0479	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-002-SA8N-SB-9.0-10.0 Collected: 5/26/2011 2:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.520	JB	0.0282	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.232	JB	0.0196	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.257	JB	0.0199	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.122	JBQ	0.0212	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.233	JB	0.0434	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.102	JBQ	0.0221	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.172	JBQ	0.0361	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.154	JBQ	0.0210	MDL	5.84	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.204	JB	0.0216	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0895	JB	0.0179	MDL	5.84	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0849	JB	0.0110	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.182	JB	0.0165	MDL	5.84	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.111	JBQ	0.0117	MDL	5.84	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0355	JBQ	0.0212	MDL	1.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0223	JQ	0.0212	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	2.00	JBQ	0.0474	MDL	11.7	PQL	ng/Kg	J	Z
OCDF	0.578	JB	0.0443	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-008-SA8N-SB-4.0-5.0 Collected: 5/26/2011 9:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.07	JB	0.0367	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.438	JB	0.0125	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.265	JBQ	0.0266	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.237	JBQ	0.0323	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.313	JB	0.0271	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.252	JBQ	0.0328	MDL	5.85	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-008-SA8N-SB-4.0-5.0      Collected: 5/26/2011 9:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.214	JBQ	0.0235	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.355	JBQ	0.0334	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.321	JB	0.0367	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.188	JB	0.0325	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.225	JB	0.0219	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.278	JB	0.0266	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.241	JBQ	0.0213	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0719	JQ	0.0434	MDL	1.17	PQL	ng/Kg	J	Z
OCDD	3.93	JB	0.0376	MDL	11.7	PQL	ng/Kg	U	B
OCDF	1.04	JB	0.0617	MDL	11.7	PQL	ng/Kg	U	B

Sample ID: SL-008-SA8N-SB-9.0-10.0      Collected: 5/26/2011 9:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.600	JB	0.0297	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0907	JB	0.00818	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0363	JB	0.0167	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0339	JBQ	0.0185	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0378	JB	0.0146	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0596	JBQ	0.0199	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0489	JB	0.0124	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0750	JBQ	0.0196	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0456	JBQ	0.0179	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0572	JB	0.0259	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0487	JB	0.0158	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0399	JBQ	0.0136	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0862	JB	0.0156	MDL	5.69	PQL	ng/Kg	U	B
OCDD	2.65	JB	0.0276	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.302	JB	0.0494	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-164-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 3:55:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.94	JB	0.0181	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.215	JB	0.0329	MDL	5.42	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-164-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 3:55:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.191	JB	0.0392	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.494	JB	0.0358	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.881	JB	0.0409	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.261	JB	0.0316	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.854	JB	0.0408	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.605	JB	0.0498	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.197	JBQ	0.0416	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.531	JB	0.0359	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.419	JBQ	0.0342	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.804	JB	0.0376	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0544	JBQ	0.0288	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.386	JQ	0.0735	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	5.29	JB	0.0486	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-165-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 3:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.04	JB	0.0714	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.622	JB	0.0524	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.617	JB	0.0502	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.35	JB	0.0565	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.631	JB	0.0484	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.06	JB	0.0526	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.322	JB	0.0571	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.345	JB	0.0447	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.86	JB	0.0446	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.753	JB	0.0467	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.749	JB	0.0440	MDL	5.33	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0640	JB	0.0261	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.524	J	0.0830	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-170-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 10:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.31	JB	0.0633	MDL	5.00	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-170-SA5DN-SS-0.0-0.5 Collected: 5/26/2011 10:00:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.625	JB	0.0238	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0369	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.140	JB	0.0294	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.314	JBQ	0.0276	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.286	JB	0.0310	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.229	JB	0.0249	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.206	JB	0.0297	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.204	JBQ	0.0295	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.273	JB	0.0215	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.287	JB	0.0179	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.214	JBQ	0.0247	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.336	JBQ	0.0183	MDL	5.00	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0480	JBQ	0.0160	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0809	J	0.0287	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	2.27	JB	0.0406	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-171-SA5DN-SS-0.0-0.5 Collected: 5/26/2011 9:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.421	JB	0.0531	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	1.74	JB	0.107	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.783	JBQ	0.0718	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.729	JB	0.0654	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.49	JB	0.105	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.88	JB	0.0502	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.324	JB	0.0348	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.975	JB	0.0480	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.07	JB	0.0336	MDL	5.24	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.220	JBQ	0.0216	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.225	JQ	0.0481	MDL	1.05	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA5DN-SS-0.0-0.5 Collected: 5/26/2011 9:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.20	JB	0.0310	MDL	5.31	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-172-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 9:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.136	JBQ	0.0399	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.119	JB	0.0547	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0679	JBQ	0.0357	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.430	JB	0.0556	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.110	JB	0.0326	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.376	JBQ	0.0554	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JB	0.0361	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.172	JBQ	0.0298	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0626	JBQ	0.0230	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.141	JBQ	0.0312	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.196	JB	0.0230	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0650	JBQ	0.0218	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0468	J	0.0304	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	2.65	JB	0.0518	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-173-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 10:20:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.403	JB	0.0437	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.460	JB	0.0857	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.480	JBQ	0.0917	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.80	JB	0.0934	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.676	JB	0.0910	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.08	JB	0.0770	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.223	JB	0.0340	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.230	JB	0.0324	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.177	JB	0.0362	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.665	JB	0.0318	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.898	JB	0.0351	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0375	JBQ	0.0168	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.380	J	0.0639	MDL	1.05	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-174-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 10:53:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.48	JB	0.0184	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.396	JB	0.0250	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.288	JB	0.0410	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.408	JB	0.0267	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.09	JB	0.0405	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.311	JB	0.0251	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.646	JB	0.0421	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JB	0.0247	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.291	JB	0.0376	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.465	JB	0.0238	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.376	JB	0.0239	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.407	JB	0.0221	MDL	5.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.124	JBQ	0.0263	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.181	J	0.0469	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	8.25	JB	0.0178	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-175-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 11:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	1.80	JBQ	0.109	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.53	JB	0.0950	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.65	JB	0.0836	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.34	JB	0.0990	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.464	JB	0.0754	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.06	JB	0.0811	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.307	JB	0.0249	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.76	JB	0.0643	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.528	JB	0.0246	MDL	5.21	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0863	JBQ	0.0266	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.146	J	0.0351	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-176-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 11:35:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.13	JB	0.0130	MDL	5.14	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-176-SA5DN-SS-0.0-0.5 Collected: 5/26/2011 11:35:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.343	JB	0.0249	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.261	JB	0.0273	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.51	JB	0.0238	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.24	JB	0.0275	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.984	JB	0.0206	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.933	JB	0.0281	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.366	JB	0.0281	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.327	JB	0.0357	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.483	JB	0.0283	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.473	JBQ	0.0229	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.566	JB	0.0300	MDL	5.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0980	JB	0.0205	MDL	1.03	PQL	ng/Kg	U	B
OCDF	4.22	JB	0.0177	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-179-SA5DN-SS-0.0-0.5 Collected: 5/26/2011 8:50:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.37	JB	0.0377	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.146	JB	0.0349	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.208	JBQ	0.0519	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.207	JB	0.0687	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.526	JB	0.0556	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.220	JBQ	0.0574	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.378	JB	0.0451	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.189	JB	0.0338	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.277	JBQ	0.0248	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.260	JB	0.0247	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.231	JB	0.0287	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.389	JB	0.0261	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0659	JBQ	0.0153	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.323	J	0.0514	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	3.18	JB	0.0466	MDL	10.5	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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## Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-180-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 1:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.06	JB	0.0292	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.126	JB	0.0353	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.161	JBQ	0.0367	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.316	JB	0.0317	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.371	JB	0.0373	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.179	JBQ	0.0281	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.276	JB	0.0348	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.195	JB	0.0272	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.284	JB	0.0202	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.243	JB	0.0155	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.168	JBQ	0.0231	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.305	JBQ	0.0152	MDL	5.12	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0482	JBQ	0.0140	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.115	JQ	0.0192	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	3.19	JB	0.0443	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-181-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 2:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.399	JB	0.0525	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.576	JBQ	0.0747	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.20	JB	0.0512	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.22	JB	0.0776	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.490	JB	0.0458	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.26	JB	0.0729	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.469	JB	0.0448	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.382	JBQ	0.0336	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.301	JB	0.0409	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.521	JB	0.0383	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.759	JB	0.0402	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0453	JB	0.0169	MDL	1.04	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.526	JQ	0.0716	MDL	1.04	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-182-SA5DN-SS-0.0-0.5 Collected: 5/26/2011 2:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.95	JB	0.0421	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.178	JB	0.0391	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.152	JBQ	0.0513	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.472	JB	0.0454	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.566	JB	0.0552	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.132	JB	0.0423	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.407	JBQ	0.0495	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0291	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.125	JBQ	0.0235	MDL	5.23	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0698	JBQ	0.0221	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.174	JB	0.0227	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.259	JB	0.0209	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0212	JBQ	0.0153	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.167	JQ	0.0360	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	5.36	JB	0.0418	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-183-SA5DN-SS-0.0-0.5 Collected: 5/26/2011 2:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.53	JB	0.0316	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.195	JBQ	0.0401	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.402	JB	0.0639	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.199	JBQ	0.0409	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	1.19	JB	0.0657	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.254	JB	0.0359	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.835	JBQ	0.0643	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.138	JBQ	0.0319	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.357	JB	0.0222	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0596	JB	0.0172	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.270	JB	0.0245	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.282	JB	0.0177	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.104	JQ	0.0269	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	5.25	JB	0.0432	MDL	10.2	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA  
**Method:** 1613B **Matrix:** SO

Sample ID: SL-184-SA5DN-SS-0.0-0.5      Collected: 5/26/2011 3:05:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.898	JB	0.0222	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.104	JB	0.0259	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0870	JBQ	0.0365	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.374	JB	0.0289	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.318	JB	0.0381	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0939	JBQ	0.0260	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.264	JB	0.0346	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.107	JB	0.0219	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.106	JB	0.0168	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0636	JB	0.0183	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.118	JB	0.0200	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.242	JB	0.0175	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0441	JB	0.0118	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.161	J	0.0375	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	2.26	JB	0.0271	MDL	10.3	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

### Reason Code Legend

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

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX093

Laboratory: LL

EDD Filename: DX093\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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