

# Reporting Limit Outliers

Lab Reporting Batch ID: DE240

Laboratory: LL

EDD Filename: DE240\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-210-SA6-SB-9.0-10.0	N-NITROSODIMETHYLAMINE	J	34.5	36.6	PQL	ng/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA6-QC-090911	TIN	J	2.99	10.0	PQL	mg/Kg	J (all detects)
SL-001-SA6-SB-0.0-1.0	TIN	J	3.18	10.1	PQL	mg/Kg	J (all detects)
SL-210-SA6-SB-4.0-5.0	SODIUM	J	89.2	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	10.6	PQL	mg/Kg	
	Zirconium	J	3.55	5.29	PQL	mg/Kg	
SL-210-SA6-SB-9.0-10.0	TIN	J	3.40	10.8	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.74	5.40	PQL	mg/Kg	
SL-217-SA6-SB-4.0-5.0	TIN	J	3.52	12.0	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-7.5-8.5	TIN	J	3.37	10.9	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.77	5.46	PQL	mg/Kg	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA6-QC-090911	ANTIMONY	J	0.111	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.211	0.404	PQL	mg/Kg	
	SILVER	J	0.0180	0.101	PQL	mg/Kg	
SL-001-SA6-SB-0.0-1.0	ANTIMONY	J	0.133	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.223	0.408	PQL	mg/Kg	
	SILVER	J	0.0276	0.102	PQL	mg/Kg	
SL-210-SA6-SB-4.0-5.0	ANTIMONY	J	0.0872	0.216	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.182	0.432	PQL	mg/Kg	
	SILVER	J	0.0472	0.108	PQL	mg/Kg	
SL-210-SA6-SB-9.0-10.0	SILVER	J	0.0420	0.106	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-4.0-5.0	ANTIMONY	J	0.160	0.233	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.262	0.466	PQL	mg/Kg	
	SILVER	J	0.0659	0.116	PQL	mg/Kg	
SL-217-SA6-SB-7.5-8.5	ANTIMONY	J	0.0810	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0991	0.420	PQL	mg/Kg	
	SILVER	J	0.0370	0.105	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA6-QC-090911	HEXAVALENT CHROMIUM	J	0.34	1.0	PQL	mg/Kg	J (all detects)
SL-001-SA6-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.76	1.1	PQL	mg/Kg	J (all detects)

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

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Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-210-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.47	1.1	PQL	mg/Kg	J (all detects)
SL-210-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.45	1.1	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.42	1.2	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-7.5-8.5	HEXAVALENT CHROMIUM	J	0.42	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-217-SA6-SB-4.0-5.0	MERCURY	J	0.0326	0.115	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-7.5-8.5	MERCURY	J	0.0147	0.104	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-217-SA6-SB-4.0-5.0	ETHANOL	J	140	610	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-210-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.93	1.3	PQL	mg/Kg	J (all detects)
SL-210-SA6-SB-9.0-10.0	EFH (C21-C30)	J	1.1	1.3	PQL	mg/Kg	J (all detects)
SL-217-SA6-SB-7.5-8.5	EFH (C30-C40)	J	0.89	1.3	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA6-QC-090911	Aroclor 5460	J	2.6	3.5	PQL	ug/Kg	J (all detects)
SL-210-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.64	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.76	1.9	PQL	ug/Kg	
SL-217-SA6-SB-4.0-5.0	AROCLOR 1260	J	1.5	2.0	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.9	4.0	PQL	ug/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DE240

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EDD Filename: DE240\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-217-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	100	400	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-217-SA6-SB-4.0-5.0	1-METHYLNAPHTHALENE	J	1.0	2.0	PQL	ug/Kg	J (all detects)
	2-METHYLNAPHTHALENE	J	1.1	2.0	PQL	ug/Kg	
	ACENAPHTHYLENE	J	0.55	2.0	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	1.2	2.0	PQL	ug/Kg	
	CHRYSENE	J	1.4	2.0	PQL	ug/Kg	
	FLUORANTHENE	J	1.1	2.0	PQL	ug/Kg	
	FLUORENE	J	1.4	2.0	PQL	ug/Kg	
	NAPHTHALENE	J	0.90	2.0	PQL	ug/Kg	

LDC #: 26859J4

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE240

ADR

Laboratory: Lancaster Laboratories

Date: 6/17/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N SW	
VII.	Duplicate Sample Analysis	A	Sb, Mo, Ag 4TX No ml
VIII.	Laboratory Control Samples (LCS)	N A	SRM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	cr, V. J/MJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	N	

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

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

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

Soi

1	SL-001-SA6-SB-0.0-1.0	11		21		31	
2	SL-210-SA6-SB-4.0-5.0	12		22		32	
3	SL-210-SA6-SB-9.0-10.0	13		23		33	
4	SL-217-SA6-SB-4.0-5.0	14		24		34	
5	SL-217-SA6-SB-7.5-7.8	15		25		35	
6	DUP15-SA6-QC-090911	16		26		36	
7	SL-001-SA6-SB-0.0-1.0MS	17		27		37	
8	SL-001-SA6-SB-0.0-1.0MSD	18		28		38	
9	SL-001-SA6-SB-0.0-1.0DUP	19		29		39	
10		20		30		40	

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

PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: [Signature]

Soil preparation factor applied: 200X, Hg: 167X

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

Associated Samples: All except Hg:1

Reason: B

Sample Concentration units, unless otherwise noted: mg/Kg		Associated Samples: All except Hg:1						Maximum PB <sup>a</sup> (ug/L)		Maximum ICB/CCB <sup>a</sup> (ug/L)		Action Limit
Analyte	Maximum PB <sup>a</sup> (mg/Kg)	1	2	4	5	6						
Sb		0.13	0.087	0.16	0.081	0.11						
Be												
Hg												
V												

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



QUALITY ASSURANCE SUMMARY  
FORM 5A (MS/MSD)  
MATRIX SPIKE/MATRIX SPIKE DUPLICATE  
SDG No.: DE240  
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6401588BKG Matrix Spike Lab Sample ID: 6401589MS Matrix Spike Duplicate Lab Sample ID: 6401590MSD  
& Solids for Sample: 96.0  
Batch ID(s): P25508G, P25526A, P25511B, P25826A, P25908D

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MSD Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C			%R	Q	%R	Q	%R	Q
Aluminum		23245.3610		27664.3352		27894.8500		204.2484	MG/KG	2164	2232	2164	2232	75-125	20P
Antimony	121	0.1326	B	0.4040		0.4671		1.2255	MG/KG	22	N	27	N	75-125	20MS
Arsenic	75	5.2635		7.1691		6.9669		2.0425	MG/KG	93		83		75-125	20MS
Barium	137	99.0809		112.5000		118.0984		10.2124	MG/KG	131		186		75-125	20MS
Beryllium	9	0.7100		1.3907		1.4097		0.8170	MG/KG	83		86		75-125	20MS
Boron		13.9320		213.1883		217.4333		204.2484	MG/KG	98		98		84-115	20P
Cadmium	111	0.2712		1.2071		1.2020		1.0212	MG/KG	92		91		75-125	20MS
Calcium		51706.0852		57947.2937		51859.0490		408.4967	MG/KG	1528		37		75-125	20P
Chromium	52	27.3693		36.8873		36.6830		10.2124	MG/KG	93		91		75-125	20MS
Cobalt	59	8.4824		61.1520		60.9886		51.0621	MG/KG	103		103		75-125	20MS
Copper	63	14.0523		24.7753		26.2663		10.2124	MG/KG	105		120		75-125	20MS
Iron		27104.5449		27461.4532		27949.5427		102.1242	MG/KG	349		811		75-125	20P
Lead	208	7.6573		11.1520		10.9293		3.0637	MG/KG	114		107		75-125	20MS
Lithium		29.1121		145.9252		146.3875		102.1242	MG/KG	114		113		82-114	20P
Magnesium		6997.5991		7899.3740		7821.4469		204.2484	MG/KG	442		395		75-125	20P
Manganese		314.2688		381.9986		366.7146		51.0621	MG/KG	133		101		75-125	20P
Mercury		0.0073	U	0.1613		0.1625		0.1720	MG/KG	94		98		65-135	20CV
Molybdenum	98	0.3962		9.6977		9.7712		10.2124	MG/KG	91		92		75-125	20MS
Nickel	60	16.8152		27.3080		27.9820		10.2124	MG/KG	103		109		75-125	20MS
Phosphorus		529.5914		674.4291		668.2615		102.1242	MG/KG	142		133		75-125	20P
Potassium		4487.4110		6348.6479		6356.4677		1021.2418	MG/KG	182		179		75-125	20P
Selenium	78	0.2230	B	2.1507		2.1671		2.0425	MG/KG	94		95		75-125	20MS
Silver	107	0.0276	B	10.0286		10.2492		10.2124	MG/KG	98		100		75-125	20MS
Sodium		193.2757		1242.4592		1251.2219		1021.2418	MG/KG	103		102		75-125	20P
Strontium		105.3509		216.3062		210.8604		102.1242	MG/KG	109		101		75-115	20P
Thallium	203	0.3056		0.7218		0.7304		0.4085	MG/KG	102		104		75-125	20MS
Tin		3.1847	B	378.4283		385.8385		408.4967	MG/KG	92		92		80-110	20P
Titanium		1419.4434		1719.6895		1712.5235		100.1603	MG/KG	300		287		75-125	20P
Vanadium	51	53.4926		64.0931		67.8513		10.2124	MG/KG	104		141		75-125	20MS
Zinc	66	68.7908		77.6961		83.7623		10.2124	MG/KG	87		147		75-125	20MS
Zirconium		5.6988		98.1087		100.8458		102.1242	MG/KG	90		91		75-125	20P

85b = post spike 60470

METHODS: (59) P = ICP Atomic Emission Spectrometer MS = ICP Mass Spectrometry	CONCENTRATION QUALIFIERS: U = Below MDL, B = Below LOQ FLAGS: N = Matrix Spike OOS, * = Duplicate OOS
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# **SAMPLE DELIVERY GROUP**

**DE241**

## **Attachment I**

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



## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Sep-2011	TB-091211	6404356	TB	5030B	8015M	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3050B	6010B	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3050B	6020	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3060A	7199	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3550B	8015B	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3550B	8015M	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3550B	8082	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3550B	8270C	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	3550B	8270C SIM	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	5035	8015M	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	METHOD	300.0	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	METHOD	314.0	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	METHOD	7471A	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	METHOD	8015B	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404352	N	METHOD	8015M	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5MSD	P404352M260920	MSD	3550B	8270C SIM	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5MS	P404352R260846	MS	3550B	8270C SIM	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3050B	6010B	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3050B	6020	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3060A	7199	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3550B	8082	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3550B	8270C	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	3550B	8270C SIM	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	METHOD	300.0	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	METHOD	314.0	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	METHOD	6850	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404355	N	METHOD	7471A	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0MSD	P404355M241600A	MSD	METHOD	6850	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0MS	P404355R241547A	MS	METHOD	6850	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3050B	6010B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3060A	7199	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3550B	8015B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3550B	8015M	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3550B	8082	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3550B	8270C	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	3550B	8270C SIM	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	5035	8015M	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	METHOD	300.0	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	METHOD	314.0	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	METHOD	7471A	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	METHOD	8015B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404351	N	METHOD	8015M	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D220900	DUP	METHOD	7471A	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D220902A	DUP	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D220902B	DUP	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D220902C	DUP	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D220902D	DUP	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D221326	DUP	3050B	6010B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D270223A	DUP	METHOD	314.0	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0DUP	P404351D272154A	DUP	3060A	7199	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M220902	MSD	METHOD	7471A	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M220908A	MSD	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M220908B	MSD	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M220908C	MSD	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M220908D	MSD	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M221334	MSD	3050B	6010B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M241727A	MSD	3550B	8082	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MSD	P404351M260720	MSD	3550B	8270C	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R220901	MS	METHOD	7471A	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R220905A	MS	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R220905B	MS	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R220905C	MS	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R220905D	MS	3050B	6020	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R221330	MS	3050B	6010B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R241708A	MS	3550B	8082	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R260656	MS	3550B	8270C	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R270246A	MS	METHOD	314.0	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0MS	P404351R271002A	MS	3060A	7199	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3050B	6010B	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3050B	6020	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3060A	7199	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3546	1625C	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3550B	8015B	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3550B	8015M	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3550B	8082	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3550B	8270C	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	3550B	8270C SIM	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	5035	8015M	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	8330	8330A	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	300.0	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	314.0	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	7471A	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	8015B	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	8015M	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	8315A	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404354	N	METHOD	9012B	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5MSD	P404354M241918A	MSD	METHOD	8315A	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5MS	P404354R241909A	MS	METHOD	8315A	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3050B	6010B	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3050B	6020	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3060A	7199	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3550B	8082	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3550B	8270C	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	3550B	8270C SIM	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	5035	8015M	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	METHOD	300.0	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	METHOD	314.0	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404353	N	METHOD	7471A	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-050-SA6-SB-1.0-2.0			Collected: 9/12/2011 10:10:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.52	J	0.357	MDL	4.96	PQL	mg/Kg	J	Z
SODIUM	71.2	J	5.90	MDL	99.1	PQL	mg/Kg	J	Z
TIN	3.00	J	0.317	MDL	9.91	PQL	mg/Kg	U	B
Zirconium	2.26	J	0.456	MDL	4.96	PQL	mg/Kg	J	Z

Sample ID: SL-051-SA6-SB-3.5-4.5			Collected: 9/12/2011 8:30:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.15	J	0.367	MDL	5.10	PQL	mg/Kg	U	B
SODIUM	73.8	J	6.07	MDL	102	PQL	mg/Kg	J	Z
TIN	2.89	J	0.327	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	2.68	J	0.470	MDL	5.10	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA6-SB-2.0-3.0			Collected: 9/12/2011 11:40:00		Analysis Type: REA2			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	88.3	J	5.94	MDL	99.9	PQL	mg/Kg	J	Z

Sample ID: SL-055-SA6-SB-2.0-3.0			Collected: 9/12/2011 11:40:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.49	J	0.360	MDL	4.99	PQL	mg/Kg	J	Z
TIN	3.09	J	0.320	MDL	9.99	PQL	mg/Kg	U	B
Zirconium	2.35	J	0.459	MDL	4.99	PQL	mg/Kg	J	Z

Sample ID: SL-235-SA6-SB-4.0-5.0			Collected: 9/12/2011 9:01:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.72	J	0.393	MDL	5.46	PQL	mg/Kg	U	B
TIN	3.00	J	0.349	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	4.42	J	0.502	MDL	5.46	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-269-SA6-SB-1.5-2.5      Collected: 9/12/2011 10:46:00      Analysis Type: REA2      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	70.0	J	6.05	MDL	102	PQL	mg/Kg	J	Z

Sample ID: SL-269-SA6-SB-1.5-2.5      Collected: 9/12/2011 10:46:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.35	J	0.366	MDL	5.09	PQL	mg/Kg	U	B
TIN	3.15	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.75	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

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

Sample ID: SL-050-SA6-SB-1.0-2.0      Collected: 9/12/2011 10:10:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.270	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z, Q

Sample ID: SL-050-SA6-SB-1.0-2.0      Collected: 9/12/2011 10:10:00      Analysis Type: REA2      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.944		0.0510	MDL	0.102	PQL	mg/Kg	J	Q

Sample ID: SL-050-SA6-SB-1.0-2.0      Collected: 9/12/2011 10:10:00      Analysis Type: REA3      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.108	MDL	0.408	PQL	mg/Kg	J	A

Sample ID: SL-050-SA6-SB-1.0-2.0      Collected: 9/12/2011 10:10:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.248		0.0755	MDL	0.204	PQL	mg/Kg	J	Q
BERYLLIUM	0.826		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CADMIUM	0.157		0.0449	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	23.3		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	7.68		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

<b>Sample ID:</b> SL-050-SA6-SB-1.0-2.0			<b>Collected:</b> 9/12/2011 10:10:00			<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
COPPER	10.1		0.0817	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	7.00		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, A
NICKEL	15.3		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0610	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.437		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	76.2		0.572	MDL	3.06	PQL	mg/Kg	J	A

<b>Sample ID:</b> SL-051-SA6-SB-3.5-4.5			<b>Collected:</b> 9/12/2011 8:30:00			<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	0.259	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z, Q

<b>Sample ID:</b> SL-051-SA6-SB-3.5-4.5			<b>Collected:</b> 9/12/2011 8:30:00			<b>Analysis Type:</b> REA2			<b>Dilution:</b> 2
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.688		0.0510	MDL	0.102	PQL	mg/Kg	J	Q

<b>Sample ID:</b> SL-051-SA6-SB-3.5-4.5			<b>Collected:</b> 9/12/2011 8:30:00			<b>Analysis Type:</b> REA3			<b>Dilution:</b> 2
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	61.1		0.108	MDL	0.408	PQL	mg/Kg	J	A

<b>Sample ID:</b> SL-051-SA6-SB-3.5-4.5			<b>Collected:</b> 9/12/2011 8:30:00			<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	0.127	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.681		0.0163	MDL	0.102	PQL	mg/Kg	J	Q
CHROMIUM	15.7		0.122	MDL	0.408	PQL	mg/Kg	J	Q
COBALT	5.66		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, A
COPPER	5.94		0.0817	MDL	0.408	PQL	mg/Kg	J	Q
LEAD	4.66		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, A
NICKEL	11.3		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0479	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q
THALLIUM	0.280		0.0306	MDL	0.102	PQL	mg/Kg	J	Q
ZINC	50.6		0.572	MDL	3.06	PQL	mg/Kg	J	A

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-055-SA6-SB-2.0-3.0			Collected: 9/12/2011 11:40:00		Analysis Type: REA			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.202	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: SL-055-SA6-SB-2.0-3.0			Collected: 9/12/2011 11:40:00		Analysis Type: REA2			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.705		0.0504	MDL	0.101	PQL	mg/Kg	J	Q

Sample ID: SL-055-SA6-SB-2.0-3.0			Collected: 9/12/2011 11:40:00		Analysis Type: REA3			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.107	MDL	0.403	PQL	mg/Kg	J	A

Sample ID: SL-055-SA6-SB-2.0-3.0			Collected: 9/12/2011 11:40:00		Analysis Type: RES			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.115	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.655		0.0161	MDL	0.101	PQL	mg/Kg	J	Q
CADMIUM	0.210		0.0444	MDL	0.101	PQL	mg/Kg	J	Q
CHROMIUM	17.0		0.121	MDL	0.403	PQL	mg/Kg	J	Q
COBALT	5.60		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, A
COPPER	8.02		0.0807	MDL	0.403	PQL	mg/Kg	J	Q
LEAD	6.98		0.0103	MDL	0.202	PQL	mg/Kg	J	Q, A
NICKEL	12.6		0.101	MDL	0.403	PQL	mg/Kg	J	Q
SILVER	0.0486	J	0.0143	MDL	0.101	PQL	mg/Kg	J	Z, Q
THALLIUM	0.305		0.0303	MDL	0.101	PQL	mg/Kg	J	Q
ZINC	61.2		0.565	MDL	3.03	PQL	mg/Kg	J	A

Sample ID: SL-235-SA6-SB-4.0-5.0			Collected: 9/12/2011 9:01:00		Analysis Type: REA			Dilution: 2	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.193	J	0.0609	MDL	0.420	PQL	mg/Kg	J	Z, Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-235-SA6-SB-4.0-5.0

Collected: 9/12/2011 9:01:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.944		0.0525	MDL	0.105	PQL	mg/Kg	J	Q

Sample ID: SL-235-SA6-SB-4.0-5.0

Collected: 9/12/2011 9:01:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	125		0.111	MDL	0.420	PQL	mg/Kg	J	A

Sample ID: SL-235-SA6-SB-4.0-5.0

Collected: 9/12/2011 9:01:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.311		0.0777	MDL	0.210	PQL	mg/Kg	J	Q
BERYLLIUM	1.28		0.0168	MDL	0.105	PQL	mg/Kg	J	Q
CADMIUM	0.181		0.0462	MDL	0.105	PQL	mg/Kg	J	Q
CHROMIUM	39.3		0.126	MDL	0.420	PQL	mg/Kg	J	Q
COBALT	12.7		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, A
COPPER	20.2		0.0840	MDL	0.420	PQL	mg/Kg	J	Q
LEAD	11.9		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, A
NICKEL	29.5		0.105	MDL	0.420	PQL	mg/Kg	J	Q
SILVER	0.222		0.0149	MDL	0.105	PQL	mg/Kg	J	Q
THALLIUM	0.442		0.0315	MDL	0.105	PQL	mg/Kg	J	Q
ZINC	92.2		0.588	MDL	3.15	PQL	mg/Kg	J	A

Sample ID: SL-269-SA6-SB-1.5-2.5

Collected: 9/12/2011 10:46:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.309	J	0.0579	MDL	0.399	PQL	mg/Kg	J	Z, Q

Sample ID: SL-269-SA6-SB-1.5-2.5

Collected: 9/12/2011 10:46:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.647		0.0499	MDL	0.0998	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-269-SA6-SB-1.5-2.5      Collected: 9/12/2011 10:46:00      Analysis Type: REA3      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	70.9		0.106	MDL	0.399	PQL	mg/Kg	J	A

Sample ID: SL-269-SA6-SB-1.5-2.5      Collected: 9/12/2011 10:46:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.178	J	0.0738	MDL	0.200	PQL	mg/Kg	J	Z, Q
BERYLLIUM	0.708		0.0160	MDL	0.0998	PQL	mg/Kg	J	Q
CADMIUM	0.0546	J	0.0439	MDL	0.0998	PQL	mg/Kg	J	Z, Q
CHROMIUM	21.9		0.120	MDL	0.399	PQL	mg/Kg	J	Q
COBALT	7.18		0.0200	MDL	0.0998	PQL	mg/Kg	J	Q, A
COPPER	6.82		0.0798	MDL	0.399	PQL	mg/Kg	J	Q
LEAD	4.29		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, A
NICKEL	13.1		0.0998	MDL	0.399	PQL	mg/Kg	J	Q
SILVER	0.0376	J	0.0142	MDL	0.0998	PQL	mg/Kg	J	Z, Q
THALLIUM	0.313		0.0299	MDL	0.0998	PQL	mg/Kg	J	Q
ZINC	66.6		0.559	MDL	2.99	PQL	mg/Kg	J	A

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

Sample ID: SL-050-SA6-SB-1.0-2.0      Collected: 9/12/2011 10:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.79	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-235-SA6-SB-4.0-5.0      Collected: 9/12/2011 9:01:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.70	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-269-SA6-SB-1.5-2.5      Collected: 9/12/2011 10:46:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.49	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

<b>Sample ID:</b> SL-050-SA6-SB-1.0-2.0		<b>Collected:</b> 9/12/2011 10:10:00		<b>Analysis Type:</b> RES		<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>
MERCURY	0.0171	J	0.0072	MDL	0.103	PQL	mg/Kg	U	B, B

<b>Sample ID:</b> SL-051-SA6-SB-3.5-4.5		<b>Collected:</b> 9/12/2011 8:30:00		<b>Analysis Type:</b> RES		<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>
MERCURY	0.0186	J	0.0071	MDL	0.102	PQL	mg/Kg	U	B, B

<b>Sample ID:</b> SL-055-SA6-SB-2.0-3.0		<b>Collected:</b> 9/12/2011 11:40:00		<b>Analysis Type:</b> RES		<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>
MERCURY	0.0128	J	0.0068	MDL	0.0973	PQL	mg/Kg	U	B, B

<b>Sample ID:</b> SL-235-SA6-SB-4.0-5.0		<b>Collected:</b> 9/12/2011 9:01:00		<b>Analysis Type:</b> RES		<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>
MERCURY	0.0111	J	0.0076	MDL	0.108	PQL	mg/Kg	U	B, B

<b>Sample ID:</b> SL-269-SA6-SB-1.5-2.5		<b>Collected:</b> 9/12/2011 10:46:00		<b>Analysis Type:</b> RES		<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>
MERCURY	0.0073	J	0.0072	MDL	0.102	PQL	mg/Kg	U	B, B

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

<b>Sample ID:</b> SL-050-SA6-SB-1.0-2.0		<b>Collected:</b> 9/12/2011 10:10:00		<b>Analysis Type:</b> RES		<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>
EFH (C8-C11)	0.64	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

<b>Sample ID:</b> SL-269-SA6-SB-1.5-2.5		<b>Collected:</b> 9/12/2011 10:46:00		<b>Analysis Type:</b> RES		<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>
EFH (C30-C40)	0.81	J	0.41	MDL	1.2	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-050-SA6-SB-1.0-2.0

Collected: 9/12/2011 10:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCOLOR 1254	0.87	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCOLOR 1260	0.65	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	3.2	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-051-SA6-SB-3.5-4.5

Collected: 9/12/2011 8:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.4	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Sample ID: SL-055-SA6-SB-2.0-3.0

Collected: 9/12/2011 11:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	1.4	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-050-SA6-SB-1.0-2.0

Collected: 9/12/2011 10:10:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-DINITROPHENOL	340	U	340	MDL	1000	PQL	ug/Kg	UJ	Q
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZIDINE	1200	U	1200	MDL	3400	PQL	ug/Kg	R	Q
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L

Sample ID: SL-051-SA6-SB-3.5-4.5

Collected: 9/12/2011 8:30:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	160	J	17	MDL	340	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-055-SA6-SB-2.0-3.0 Collected: 9/12/2011 11:40:00 Analysis Type: RES-ACID Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZOIC ACID	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BIS(2-ETHYLHEXYL)PHTHALATE	69	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-235-SA6-SB-4.0-5.0 Collected: 9/12/2011 9:01:00 Analysis Type: RES-ACID Dilution: 1

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

Sample ID: SL-269-SA6-SB-1.5-2.5 Collected: 9/12/2011 10:46:00 Analysis Type: RES-ACID Dilution: 1

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

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

Sample ID: SL-050-SA6-SB-1.0-2.0 Collected: 9/12/2011 10:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.49	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-055-SA6-SB-2.0-3.0 Collected: 9/12/2011 11:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.58	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_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: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* 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

DE241

# Method Blank Outlier Report

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

<b>Method:</b> 6010B <b>Matrix:</b> SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25708CB221307	9/22/2011 1:07:00 PM	BORON CALCIUM MANGANESE PHOSPHORUS STRONTIUM TIN	0.683 mg/Kg 11.1 mg/Kg 0.0780 mg/Kg 0.876 mg/Kg 0.0590 mg/Kg 1.70 mg/Kg	SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-050-SA6-SB-1.0-2.0(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-051-SA6-SB-3.5-4.5(RES)	BORON	2.15 mg/Kg	2.15U mg/Kg
SL-051-SA6-SB-3.5-4.5(RES)	TIN	2.89 mg/Kg	2.89U mg/Kg
SL-055-SA6-SB-2.0-3.0(RES)	TIN	3.09 mg/Kg	3.09U mg/Kg
SL-235-SA6-SB-4.0-5.0(RES)	BORON	2.72 mg/Kg	2.72U mg/Kg
SL-235-SA6-SB-4.0-5.0(RES)	TIN	3.00 mg/Kg	3.00U mg/Kg
SL-269-SA6-SB-1.5-2.5(RES)	BORON	1.35 mg/Kg	1.35U mg/Kg
SL-269-SA6-SB-1.5-2.5(RES)	TIN	3.15 mg/Kg	3.15U mg/Kg

<b>Method:</b> 7471A <b>Matrix:</b> SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P25711BB220853	9/16/2011 8:53:00 AM	MERCURY	0.0072 mg/Kg	SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-050-SA6-SB-1.0-2.0(RES)	MERCURY	0.0171 mg/Kg	0.0171U mg/Kg
SL-051-SA6-SB-3.5-4.5(RES)	MERCURY	0.0186 mg/Kg	0.0186U mg/Kg
SL-055-SA6-SB-2.0-3.0(RES)	MERCURY	0.0128 mg/Kg	0.0128U mg/Kg
SL-235-SA6-SB-4.0-5.0(RES)	MERCURY	0.0111 mg/Kg	0.0111U mg/Kg
SL-269-SA6-SB-1.5-2.5(RES)	MERCURY	0.0073 mg/Kg	0.0073U mg/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5)	BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM	- 134 - 128 - - - 131 -	135 149 131 142 144 153 149 144 136	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - - - - - -	BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM	J (all detects)
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5)	ANTIMONY ARSENIC VANADIUM ZINC	66 30 73 41	70 - 134 134	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - -	ANTIMONY ARSENIC VANADIUM ZINC	J(all detects) UJ(all non-detects)  As, V, Zn, No Qual, >4x
SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5)	SELENIUM	-	145	75.00-125.00	-	SELENIUM	J(all detects)
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5)	MOLYBDENUM	135	147	75.00-125.00	-	MOLYBDENUM	J(all detects)
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5)	BARIUM	34	178	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5)	ALUMINUM CALCIUM TITANIUM	1087 152 266	846 141 245	75.00-125.00 75.00-125.00 75.00-125.00	- - -	ALUMINUM CALCIUM TITANIUM	No Qual, >4x
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5)	IRON	726	-208	75.00-125.00	-	IRON	No Qual, >4x

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

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5)	MAGNESIUM MANGANESE	229 -	73 74	75.00-125.00 75.00-125.00	- -	MAGNESIUM MANGANESE	No Qual, >4x

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0)	4,6-DINITRO-2-METHYLPHENOL	-	-	11.00-126.00	31 (30.00)	4,6-DINITRO-2-METHYLPHEN	J(all detects)
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)
SL-050-SA6-SB-1.0-2.0MS SL-050-SA6-SB-1.0-2.0MSD (SL-050-SA6-SB-1.0-2.0)	2,4-DINITROPHENOL	13	-	20.00-143.00	43 (30.00)	2,4-DINITROPHENOL	J(all detects) UJ(all non-detects)

## Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-050-SA6-SB-1.0-2.0DUP (SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5)	HEXAVALENT CHROMIUM	36	20.00	No Qual, OK by Difference

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P25726AQ220852A (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	VANADIUM	121	-	80.00-120.00	-	VANADIUM	No Qual, SRM within Limits

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P25708CQ221311 P25708CQ221634 (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	ALUMINUM IRON MAGNESIUM	149 141 126	- - -	80.00-120.00 80.00-120.00 80.00-120.00	- - -	ALUMINUM IRON MAGNESIUM	No Qual, SRM within Limits

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P8LALCSQ260158 (SL-050-SA6-SB-1.0-2.0 SL -051-SA6-SB-3.5-4.5 SL -055-SA6-SB-2.0-3.0 SL -235-SA6-SB-4.0-5.0 SL -269-SA6-SB-1.5-2.5)	4,6-DINITRO-2-METHYLPHENOL BENZOIC ACID	39 57	- -	46.00-120.00 62.00-113.00	- -	4,6-DINITRO-2-METHYLPHEN BENZOIC ACID	J(all detects) UJ(all non-detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	BORON	J	3.52	4.96	PQL	mg/Kg	J (all detects)
	SODIUM	J	71.2	99.1	PQL	mg/Kg	
	TIN	J	3.00	9.91	PQL	mg/Kg	
	Zirconium	J	2.26	4.96	PQL	mg/Kg	
SL-051-SA6-SB-3.5-4.5	BORON	J	2.15	5.10	PQL	mg/Kg	J (all detects)
	SODIUM	J	73.8	102	PQL	mg/Kg	
	TIN	J	2.89	10.2	PQL	mg/Kg	
	Zirconium	J	2.68	5.10	PQL	mg/Kg	
SL-055-SA6-SB-2.0-3.0	BORON	J	3.49	4.99	PQL	mg/Kg	J (all detects)
	SODIUM	J	88.3	99.9	PQL	mg/Kg	
	TIN	J	3.09	9.99	PQL	mg/Kg	
	Zirconium	J	2.35	4.99	PQL	mg/Kg	
SL-235-SA6-SB-4.0-5.0	BORON	J	2.72	5.46	PQL	mg/Kg	J (all detects)
	TIN	J	3.00	10.9	PQL	mg/Kg	
	Zirconium	J	4.42	5.46	PQL	mg/Kg	
SL-269-SA6-SB-1.5-2.5	BORON	J	1.35	5.09	PQL	mg/Kg	J (all detects)
	SODIUM	J	70.0	102	PQL	mg/Kg	
	TIN	J	3.15	10.2	PQL	mg/Kg	
	Zirconium	J	1.75	5.09	PQL	mg/Kg	

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	SELENIUM	J	0.270	0.408	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0610	0.102	PQL	mg/Kg	
SL-051-SA6-SB-3.5-4.5	ANTIMONY	J	0.127	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.259	0.408	PQL	mg/Kg	
	SILVER	J	0.0479	0.102	PQL	mg/Kg	
SL-055-SA6-SB-2.0-3.0	ANTIMONY	J	0.115	0.202	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.202	0.403	PQL	mg/Kg	
	SILVER	J	0.0486	0.101	PQL	mg/Kg	
SL-235-SA6-SB-4.0-5.0	SELENIUM	J	0.193	0.420	PQL	mg/Kg	J (all detects)
SL-269-SA6-SB-1.5-2.5	ANTIMONY	J	0.178	0.200	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0546	0.0998	PQL	mg/Kg	
	SELENIUM	J	0.309	0.399	PQL	mg/Kg	
	SILVER	J	0.0376	0.0998	PQL	mg/Kg	

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	HEXAVALENT CHROMIUM	J	0.79	1.0	PQL	mg/Kg	J (all detects)
SL-235-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.70	1.1	PQL	mg/Kg	J (all detects)
SL-269-SA6-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.49	1.0	PQL	mg/Kg	J (all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE241

Laboratory: LL

EDD Filename: DE241\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	MERCURY	J	0.0171	0.103	PQL	mg/Kg	J (all detects)
SL-051-SA6-SB-3.5-4.5	MERCURY	J	0.0186	0.102	PQL	mg/Kg	J (all detects)
SL-055-SA6-SB-2.0-3.0	MERCURY	J	0.0128	0.0973	PQL	mg/Kg	J (all detects)
SL-235-SA6-SB-4.0-5.0	MERCURY	J	0.0111	0.108	PQL	mg/Kg	J (all detects)
SL-269-SA6-SB-1.5-2.5	MERCURY	J	0.0073	0.102	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	EFH (C8-C11)	J	0.64	1.2	PQL	mg/Kg	J (all detects)
SL-269-SA6-SB-1.5-2.5	EFH (C30-C40)	J	0.81	1.2	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	AROCLOR 1254	J	0.87	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.65	1.8	PQL	ug/Kg	
	Aroclor 5460	J	3.2	3.4	PQL	ug/Kg	
SL-051-SA6-SB-3.5-4.5	Aroclor 5460	J	2.4	3.4	PQL	ug/Kg	J (all detects)
SL-055-SA6-SB-2.0-3.0	Aroclor 5460	J	1.4	3.4	PQL	ug/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-051-SA6-SB-3.5-4.5	BIS(2-ETHYLHEXYL)PHthalATE	J	160	340	PQL	ug/Kg	J (all detects)
SL-055-SA6-SB-2.0-3.0	BIS(2-ETHYLHEXYL)PHthalATE	J	69	340	PQL	ug/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	CHRYSENE	J	0.49	1.7	PQL	ug/Kg	J (all detects)
SL-055-SA6-SB-2.0-3.0	CHRYSENE	J	0.58	1.7	PQL	ug/Kg	J (all detects)



LDC #: 26859K4

## VALIDATION COMPLETENESS WORKSHEET

SDG #: DE241

ADR

Laboratory: Lancaster Laboratories

Date: 12/27/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, As, Ba, Ca, Fe, Mg, Mn, Ti, V, Zn 74%, No gnd.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N A	SW
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Cd, Pb, Zn J/NT/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:

50.1

1	SL-050-SA6-SB-1.0-2.0	11		21		31	
2	SL-051-SA6-SB-3.5-4.5	12		22		32	
3	SL-055-SA6-SB-2.0-3.0	13		23		33	
4	SL-269-SA6-SB-1.5-2.5	14		24		34	
5	SL-235-SA6-SB-4.0-5.0	15		25		35	
6	#1 MS	16		26		36	
7	✓ MSB	17		27		37	
8	✓ MSB	18		28		38	
9		19		29		39	
10		20		30		40	

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





QUALITY ASSURANCE SUMMARY  
FORM 5A (MS/MSD)  
MATRIX SPIKE/MATRIX SPIKE DUPLICATE  
SDG No.: DE241  
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6404351BKG Matrix Spike Lab Sample ID: 6404351MS Matrix Spike Duplicate Lab Sample ID: 6404351MSD  
& Solids for Sample: 97.0  
Batch Id(s): P25708C, P25726A, P25711B

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units		MS		MSD		Control Limit	
		Result	C	Result	C	Result	C			MG/KG	Q	R	Q	R	Q	RPD	M
Aluminum		13729.2883		15948.8007		15456.9776		204.1441	204.1441	MG/KG	1087	846	3				
Antimony	121	0.2476		1.0459		1.1017		1.2129	1.2129	MG/KG	66 N	70 N	5				20P
Arsenic	75	10.8462		11.4574		13.1615		2.0214	2.0214	MG/KG	30	115	14				20MS
Barium	137	110.7686		114.2308		128.8053		10.1071	10.1071	MG/KG	34	178	12				20MS
Beryllium	9	0.8264		1.7031		1.9200		0.8086	0.8086	MG/KG	109	135 N	12				20MS
Boron		3.5210 B		198.5781		197.9167		204.1441	204.1441	MG/KG	96	95	0				20P
Cadmium	111	0.1568		1.5094		1.6620		1.0107	1.0107	MG/KG	134 N	149 N	10				20MS
Calcium		2523.9175		3142.7284		3100.3542		408.2882	408.2882	MG/KG	152	141	1				20P
Chromium	52	23.2928		33.2120		36.5676		10.1071	10.1071	MG/KG	98	131 N	10				20MS
Cobalt	59	7.6840		72.3469		79.6644		50.5357	50.5357	MG/KG	128 N	142 N	10				20MS
Copper	63	10.0561		22.3368		24.5603		10.1071	10.1071	MG/KG	122	144 N	9				20MS
Iron		19354.3200		20095.0934		19142.2139		102.0721	102.0721	MG/KG	726	-208	5				20P
Lead	208	7.0001		10.4508		11.6414		3.0321	3.0321	MG/KG	114	153 N	11				20MS
Lithium		28.8352		127.9249		126.6245		102.0721	102.0721	MG/KG	97	96	1				20P
Magnesium		4181.0329		4647.5452		4329.6652		204.1441	204.1441	MG/KG	229	73	7				20P
Manganese		300.2686		354.3085		337.8493		51.0360	51.0360	MG/KG	106	74	5				20P
Mercury		0.0171 B		0.1768		0.1867		0.1668	0.1668	MG/KG	96	101	5				20CV
Molybdenum	98	0.9438		14.5543		15.8156		10.1071	10.1071	MG/KG	135 N	147 N	8				20MS
Nickel	60	15.3373		27.2286		30.4427		10.1071	10.1071	MG/KG	118	149 N	11				20MS
Phosphorus		381.1638		493.8379		496.8521		102.0721	102.0721	MG/KG	110	113	1				20P
Potassium		3017.8509		4242.1241		3946.3101		1020.7206	1020.7206	MG/KG	120	91	7				20P
Selenium	78	0.2701 B		2.8037		3.2080		2.0214	2.0214	MG/KG	125	145 N	13				20MS
Silver	107	0.0610 B		13.3111		14.6655		10.1071	10.1071	MG/KG	131 N	144 N	10				20MS
Sodium		71.2351 B		1044.8137		1041.5209		1020.7206	1020.7206	MG/KG	95	95	0				20P
Strontium		16.3025		115.7456		114.3534		102.0721	102.0721	MG/KG	97	96	1				20P
Thallium	203	0.4375		0.8539		0.9887		0.4043	0.4043	MG/KG	103	136 N	15				20MS
Tin		3.0036 B		378.0749		385.5844		408.2882	408.2882	MG/KG	92	94	2				20P
Titanium		1173.2266		1445.1842		1422.8407		102.0721	102.0721	MG/KG	266	245	2				20P
Vanadium	51	46.1366		53.5274		59.6523		10.1071	10.1071	MG/KG	73	134	11				20MS
Zinc	66	76.2478		80.3719		89.7514		10.1071	10.1071	MG/KG	41	134	11				20MS
Zirconium	90	2.2591 B		85.8967		80.3777		102.0721	102.0721	MG/KG	82	77	7				20P

METHODS:

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

CONCENTRATION QUALIFIERS:

U = Below MDL, B = Below LOQ

FLAGS:

N = Matrix Spike OOS, \* = Duplicate OOS



## QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE241

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6404351BKG

Serial Dilution Lab Sample ID: 6404351L

Batch ID(s): P25708C, P25726A

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		138501.0600		137731.4000		1		P
Antimony	121	1.2130		1.8500	U	100		MS
Arsenic	75	53.1300		47.6150		10		MS
Barium	137	542.6000		477.0500		12	E	MS
Beryllium	9	4.0480		3.6625		10		MS
Boron		35.5200	B	53.8000	B	51		P
Cadmium	111	0.7683		1.1000	U	100		MS
Calcium		25461.2800		25351.7500		0		P
Chromium	52	114.1000		111.5500		2		MS
Cobalt	59	37.6400		32.6950		13	E	MS
Copper	63	49.2600		45.6500		7		MS
Iron		195246.3800		187209.6500		4		P
Lead	208	34.2900		30.2950		12	E	MS
Lithium		290.8900		280.6500		4		P
Magnesium		42178.2600		41548.0000		1		P
Manganese		3029.1100		3090.3000		2		P
Molybdenum	98	4.6230		4.3675		6		MS
Nickel	60	75.1300		68.6500		9		MS
Phosphorus		3845.1800		3779.0000		2		P
Potassium		30444.0800		29515.6000		3		P
Selenium	78	1.3230	B	1.4500	U	100		MS
Silver	107	0.2988	B	0.3550	U	100		MS
Sodium		718.6200	B	652.1000	B	9		P
Strontium		164.4600		167.6000		2		P
Thallium	203	2.1430		1.9635	B	8		MS
Tin		30.3000	B	32.5500	B	7		P
Titanium		11835.5100		11934.5000		1		P
Vanadium	51	226.0000		217.2500		4		MS
Zinc	66	373.5000		334.0000		11	E	MS
Zirconium		22.7900	B	27.9000	B	22		P

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

## METHODS:

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry

## CONCENTRATION QUALIFIERS:

DE241 2121

U= Below MDL

B= Below LOQ

## FLAGS:

E = Matrix Effects exist as proven by  
Serial Dilution or Spiked Dilution

# **SAMPLE DELIVERY GROUP**

**DE260**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Oct-2011	TB-100311	6427657	TB	3520C	1625C	III
03-Oct-2011	TB-100311	6427658	TB	3546	1625C	III
03-Oct-2011	TB-100311	6427659	TB	5030B	8015M	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3050B	6010B	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3050B	6020	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3060A	7199	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3546	1625C	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3550B	8015B	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3550B	8015M	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3550B	8082	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3550B	8270C	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	3550B	8270C SIM	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	5035	8015M	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	8330	8330A	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	300.0	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	314.0	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	7471A	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	8015B	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	8015M	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	8315A	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427654	N	METHOD	9012B	III
03-Oct-2011	EB-SA6-SB-100311	6427656	EB	3520C	1625C	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3050B	6010B	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3050B	6020	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3060A	7199	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3546	1625C	III

III = EPA Level 3 Data Review  
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
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3550B	8015B	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3550B	8015M	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3550B	8082	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3550B	8270C	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	3550B	8270C SIM	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	5035	8015M	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	8330	8330A	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	300.0	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	314.0	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	7471A	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	8015B	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	8015M	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	8315A	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427655	N	METHOD	9012B	III



## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

Sample ID: SL-064-SA6-SB-4.0-5.0

Collected: 10/3/2011 3:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.64	J	0.367	MDL	5.09	PQL	mg/Kg	J	Z
POTASSIUM	2570		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	72.5	J	6.06	MDL	102	PQL	mg/Kg	J	Z
TIN	2.23	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.33	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA6-SB-9.0-10.0

Collected: 10/3/2011 4:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.27	J	0.400	MDL	5.56	PQL	mg/Kg	J	Z
POTASSIUM	2180		12.6	MDL	55.6	PQL	mg/Kg	J	Q
TIN	2.45	J	0.356	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	1.43	J	0.511	MDL	5.56	PQL	mg/Kg	J	Z

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-064-SA6-SB-4.0-5.0

Collected: 10/3/2011 3:30:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.147	J	0.0596	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA6-SB-4.0-5.0

Collected: 10/3/2011 3:30:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.641		0.0514	MDL	0.103	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA6-SB-4.0-5.0

Collected: 10/3/2011 3:30:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	73.5		0.109	MDL	0.411	PQL	mg/Kg	J	A

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-064-SA6-SB-4.0-5.0      Collected: 10/3/2011 3:30:00      Analysis Type: REA4      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	8.03		0.0831	MDL	0.415	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA6-SB-4.0-5.0      Collected: 10/3/2011 3:30:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0761	U	0.0761	MDL	0.206	PQL	mg/Kg	UJ	Q
ARSENIC	5.18		0.0823	MDL	0.411	PQL	mg/Kg	J	Q, E
CADMIUM	0.108		0.0452	MDL	0.103	PQL	mg/Kg	J	Q
CHROMIUM	17.5		0.123	MDL	0.411	PQL	mg/Kg	J	Q
COBALT	6.04		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, A
LEAD	5.53		0.0105	MDL	0.206	PQL	mg/Kg	J	A
NICKEL	11.0		0.103	MDL	0.411	PQL	mg/Kg	J	Q
SILVER	0.0428	J	0.0146	MDL	0.103	PQL	mg/Kg	UJ	B, Q
THALLIUM	0.338		0.0308	MDL	0.103	PQL	mg/Kg	J	Q
VANADIUM	33.8		0.0226	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-064-SA6-SB-9.0-10.0      Collected: 10/3/2011 4:00:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.159	J	0.0632	MDL	0.436	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA6-SB-9.0-10.0      Collected: 10/3/2011 4:00:00      Analysis Type: REA2      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.08		0.0545	MDL	0.109	PQL	mg/Kg	J	Q

Sample ID: SL-064-SA6-SB-9.0-10.0      Collected: 10/3/2011 4:00:00      Analysis Type: REA3      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	76.8		0.116	MDL	0.436	PQL	mg/Kg	J	A

Sample ID: SL-064-SA6-SB-9.0-10.0      Collected: 10/3/2011 4:00:00      Analysis Type: REA4      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	7.68		0.0907	MDL	0.454	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-064-SA6-SB-9.0-10.0

Collected: 10/3/2011 4:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0807	U	0.0807	MDL	0.218	PQL	mg/Kg	UJ	Q
ARSENIC	5.14		0.0872	MDL	0.436	PQL	mg/Kg	J	Q, E
CADMIUM	0.0798	J	0.0480	MDL	0.109	PQL	mg/Kg	J	Z, Q
CHROMIUM	19.1		0.131	MDL	0.436	PQL	mg/Kg	J	Q
COBALT	5.35		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, A
LEAD	6.35		0.0111	MDL	0.218	PQL	mg/Kg	J	A
NICKEL	11.6		0.109	MDL	0.436	PQL	mg/Kg	J	Q
SILVER	0.0502	J	0.0155	MDL	0.109	PQL	mg/Kg	UJ	B, Q
THALLIUM	0.263		0.0327	MDL	0.109	PQL	mg/Kg	J	Q
VANADIUM	39.5		0.0240	MDL	0.109	PQL	mg/Kg	J	E

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

Sample ID: SL-064-SA6-SB-4.0-5.0

Collected: 10/3/2011 3:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.68	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-064-SA6-SB-9.0-10.0

Collected: 10/3/2011 4:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.28	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

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

Sample ID: SL-064-SA6-SB-4.0-5.0

Collected: 10/3/2011 3:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0154	J	0.0071	MDL	0.101	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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## Data Qualifier Summary

Lab Reporting Batch ID: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-064-SA6-SB-9.0-10.0      Collected: 10/3/2011 4:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0194	J	0.0080	MDL	0.113	PQL	mg/Kg	J	Z

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

Sample ID: EB-SA6-SB-100311      Collected: 10/3/2011 3:30:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.62		0.478	MDL	0.957	PQL	ng/L	J	S

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>8082</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-064-SA6-SB-4.0-5.0      Collected: 10/3/2011 3:30:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	2.5		0.40	MDL	1.8	PQL	ug/Kg	J	S
Aroclor 5460	1.2	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z, S

Sample ID: SL-064-SA6-SB-9.0-10.0      Collected: 10/3/2011 4:00:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.70	J	0.44	MDL	1.9	PQL	ug/Kg	J	Z

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

Sample ID: SL-064-SA6-SB-9.0-10.0      Collected: 10/3/2011 4:00:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	19	MDL	370	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-064-SA6-SB-9.0-10.0

Collected: 10/3/2011 4:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	1.1	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(A)ANTHRACENE	0.87	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	0.81	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	0.98	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.1	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	0.76	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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: DE260

Laboratory: LL

EDD Filename: DE260\_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: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DE260

# Method Blank Outlier Report

Lab Reporting Batch ID: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27808DB221629	10/12/2011 4:29:00 PM	ALUMINUM CALCIUM IRON MAGNESIUM MANGANESE PHOSPHORUS STRONTIUM TIN	14.0 mg/Kg 13.0 mg/Kg 7.03 mg/Kg 5.37 mg/Kg 0.0762 mg/Kg 1.34 mg/Kg 0.0535 mg/Kg 1.32 mg/Kg	SL-064-SA6-SB-4.0-5.0 SL-064-SA6-SB-9.0-10.0
P28608BB221042	10/14/2011 10:42:00 AM	TITANIUM	0.0860 mg/Kg	SL-064-SA6-SB-4.0-5.0 SL-064-SA6-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-064-SA6-SB-4.0-5.0(RES)	TIN	2.23 mg/Kg	2.23U mg/Kg
SL-064-SA6-SB-9.0-10.0(RES)	TIN	2.45 mg/Kg	2.45U mg/Kg

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27826AB220430A	10/7/2011 4:30:00 AM	LEAD SILVER	0.121 mg/Kg 0.0360 mg/Kg	SL-064-SA6-SB-4.0-5.0 SL-064-SA6-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-064-SA6-SB-4.0-5.0(RES)	SILVER	0.0428 mg/Kg	0.0428U mg/Kg
SL-064-SA6-SB-9.0-10.0(RES)	SILVER	0.0502 mg/Kg	0.0502U mg/Kg

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27826AQ220409A (SL-064-SA6-SB-4.0-5.0 SL -064-SA6-SB-9.0-10.0)	ANTIMONY	76	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LELCSQ260717 (SL-064-SA6-SB-4.0-5.0 SL -064-SA6-SB-9.0-10.0)	2,4,5-TRICHLOROPHENOL	109	-	76.00-107.00	-	2,4,5-TRICHLOROPHENOL	J(all detects)

# Surrogate Outlier Report

Lab Reporting Batch ID: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1625C

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-100311	N-Nitrosodimethylamine-d6	257	50.00-150.00	All Target Analytes	J (all detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-064-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	219	45.00-120.00	All Target Analytes	J(all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-4.0-5.0	BORON	J	2.64	5.09	PQL	mg/Kg	J (all detects)
	SODIUM	J	72.5	102	PQL	mg/Kg	
	TIN	J	2.23	10.2	PQL	mg/Kg	
	Zirconium	J	1.33	5.09	PQL	mg/Kg	
SL-064-SA6-SB-9.0-10.0	BORON	J	3.27	5.56	PQL	mg/Kg	J (all detects)
	TIN	J	2.45	11.1	PQL	mg/Kg	
	Zirconium	J	1.43	5.56	PQL	mg/Kg	

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-4.0-5.0	SELENIUM	J	0.147	0.411	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0428	0.103	PQL	mg/Kg	
SL-064-SA6-SB-9.0-10.0	CADMIUM	J	0.0798	0.109	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.159	0.436	PQL	mg/Kg	
	SILVER	J	0.0502	0.109	PQL	mg/Kg	

**Method:** 7139  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.68	1.0	PQL	mg/Kg	J (all detects)
SL-064-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.28	1.1	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-4.0-5.0	MERCURY	J	0.0154	0.101	PQL	mg/Kg	J (all detects)
SL-064-SA6-SB-9.0-10.0	MERCURY	J	0.0194	0.113	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-4.0-5.0	Aroclor 5460	J	1.2	3.4	PQL	ug/Kg	J (all detects)
SL-064-SA6-SB-9.0-10.0	AROCLOR 1260	J	0.70	1.9	PQL	ug/Kg	J (all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE260

Laboratory: LL

EDD Filename: DE260\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-9.0-10.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	370	PQL	ug/Kg	J (all detects)

Method: 8270C-SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-064-SA6-SB-9.0-10.0	ANTHRACENE	J	1.1	1.9	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	0.87	1.9	PQL	ug/Kg	
	CHRYSENE	J	0.81	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	0.98	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.1	1.9	PQL	ug/Kg	
	PYRENE	J	0.76	1.9	PQL	ug/Kg	



LDC #: 26864D4

## VALIDATION COMPLETENESS WORKSHEET

SDG #: DE260

ADR

Laboratory: Lancaster Laboratories

Date: 1/4/12

Page: 1 of 1

Reviewer: W2nd Reviewer: C

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No find by 2UB/UB
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	See DE XB
VII.	Duplicate Sample Analysis	SW	As, <del>Se</del> , V J/UT
VIII.	Laboratory Control Samples (LCS)	NA	SW
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Co, Pb J/UT
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

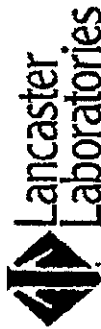
ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

1	SL-064-SA6-SB-4.0-5.0	11		21		31	
2	SL-064-SA6-SB-9.0-10.0	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

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



## QUALITY ASSURANCE SUMMARY

FORM 5A (MS/MSD)

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

SDG No.: DE258

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6423856BKG Matrix Spike Lab Sample ID: 6423857MS Matrix Spike Duplicate Lab Sample ID: 6423858MSD  
% Solids for Sample: 96.7

Batch Id(s): P27808D, P27826A, P27811B, P28608B

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	Units	MS		MSD		Control Limit	
		Result	C	Result	C	Result	C			\$R	Q	\$R	Q	%R	RPD M
Aluminum		17858.0186		22300.3030		23324.8282		206.8252	204.7775MG/KG	2148		2670			
Antimony	121	0.2064		0.5299		0.6505		1.2048	1.2166MG/KG	27 N		37 N		75 - 125	20P
Arsenic	75	6.7867		10.6164		11.0428		2.0080	2.0277MG/KG	191 N		210 N		75 - 125	20MS
Barium	137	93.1525		113.3924		125.6362		10.0401	10.1385MG/KG	202		320			20MS
Beryllium	9	0.6560		1.5582		1.5978		0.8032	0.8111MG/KG	112		116		75 - 125	20MS
Boron		11.1645		223.4374		218.6962		206.8252	204.7775MG/KG	103		101		84 - 115	20P
Cadmium	111	0.3001		1.4231		1.6258		1.0040	1.0138MG/KG	112		131 N		75 - 125	20MS
Calcium		144449.7527		155159.0900		148171.7315		413.6505	409.5549MG/KG	2589		909			20P
Chromium	52	29.9288		46.7666		51.0169		10.0401	10.1385MG/KG	168 N		208 N		75 - 125	20MS
Cobalt	59	9.6012		64.7985		75.0654		50.2003	50.6925MG/KG	110		129 N		75 - 125	20MS
Copper	63	18.7927		31.8471		35.7280		10.0401	10.1385MG/KG	130 N		167 N		75 - 125	20MS
Iron		20924.6378		21719.1727		21613.1314		103.4126	102.3887MG/KG	768		672			20P
Lead	208	20.7636		24.3973		28.5297		3.0120	3.0415MG/KG	121		255			20MS
Lithium		18.4627		122.8925		123.0897		103.4126	102.3887MG/KG	101		102		82 - 114	20P
Magnesium		6096.2884		6407.6267		6595.9311		206.8252	204.7775MG/KG	151		293			20P
Manganese		278.1615		392.4602		335.8524		51.7063	51.1944MG/KG	221		113			20P
Mercury		0.0184 B		0.1771		0.1746		0.1719	0.1632MG/KG	92		96		65 - 135	20CV
Molybdenum	98	0.3220		11.9959		13.8755		10.0401	10.1385MG/KG	116		134 N		75 - 125	20MS
Nickel	60	17.0509		30.7226		35.2008		10.0401	10.1385MG/KG	136 N		179 N		75 - 125	20MS
Phosphorus		451.9694		554.2875		561.3790		103.4126	102.3887MG/KG	99		107			20P
Potassium		3129.6641		4662.5305		4882.3103		1034.1262	1023.8873MG/KG	148 N		171 N		75 - 125	20P
Selenium	78	0.2524 B		2.2450		2.4920		2.0080	2.0277MG/KG	99		110		75 - 125	20MS
Silver	107	0.0229 B		11.1083		12.8536		10.0401	10.1385MG/KG	110		127 N		75 - 125	20MS
Sodium		120.5463		1145.3826		1132.5709		1034.1262	1023.8873MG/KG	99		99		75 - 125	20P
Strontium		155.8316		252.2285		244.8186		103.4126	102.3887MG/KG	93		87		75 - 115	20P
Thallium	203	0.2567		0.7472		0.8413		0.4016	0.4055MG/KG	122		144 N		75 - 125	20MS
Tin		1.9382 B		335.1375		327.8016		413.6505	409.5549MG/KG	81		80		80 - 110	20P
Titanium		832.4328		1152.5961		1129.9658		102.3887	99.4352MG/KG	313		299			20P
Vanadium	51	51.6252		76.0635		80.4996		10.0401	10.1385MG/KG	243		285			20MS
Zinc	66	55.0926		69.6780		73.4027		10.0401	10.1385MG/KG	145		181			20MS
Zirconium		3.4044 B		102.5222		101.6802		103.4126	102.3887MG/KG	96		96		81 - 110	20P

## METHODS:

P = ICP Atomic Emission Spectrometer CV = Cold Vapor

MS = ICP Mass Spectrometry

AF = Cold Vapor Atomic Fluorescence

## CONCENTRATION QUALIFIERS:

U= Below MDL, B= Below LOQ

## FLAGS:

N = Matrix Spike OOS, \* = Duplicate OOS

Lp: post spike 8670



QUALITY ASSURANCE SUMMARY  
FORM 5A (MS/MSD)  
MATRIX SPIKE/MATRIX SPIKE DUPLICATE  
SDG No.: DE258  
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423870BKG Matrix Spike Lab Sample ID: 6423870MS Matrix Spike Duplicate Lab Sample ID: 6423870MSD  
& Solids for Sample: 95.6  
Batch ID(s): P28026A

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	Units MG/KG	MS		MSD		RPD Q	Control Limit	
		Result	C	Result	C	Result	C			%R	Q	%R	Q		%R	RPD M
Copper	63	5.0798		18.1827		16.9659		10.0579		130N		117		7	75 - 125	20MS

METHODS: W  
DE258  
P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry

CV = Cold Vapor  
AF = Cold Vapor Atomic Fluorescence

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



## QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE258

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423856BK

Duplicate Lab Sample ID: 6423859DUP

% Solids for Duplicate: 96.7

% Solids for Sample: 96.7

Batch ID(s): P27808D, P27826A, P27811B, P28608B

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			17858.0186		18271.4323		2		P
Antimony	121	0.2	0.2064		0.2325		12		MS
Arsenic	75		6.7867		9.1520		30	*	MS
Barium	137		93.1525		111.0691		18		MS
Beryllium	9		0.6560		0.7943		19		MS
Boron		5.1	11.1645		10.9478		2		P
Cadmium	111	0.1	0.3001		0.3639		19		MS
Calcium			144449.7527		138710.8176		4		P
Chromium	52		29.9288		35.0609		16		MS
Cobalt	59		9.6012		9.4821		1		MS
Copper	63		18.7927		23.6855		23	*	MS
Iron			20924.6378		24569.3700		16		P
Lead	208		20.7636		23.8247		14		MS
Lithium			18.4627		18.3289		1		P
Magnesium			6096.2884		6123.6775		0		P
Manganese			278.1615		312.9554		12		P
Mercury			0.0184	B	0.0131	B	34		CV
Molybdenum	98	0.1	0.3220		0.4552		34	*	MS
Nickel	60		17.0509		20.4240		18		MS
Phosphorus			451.9694		459.9704		2		P
Potassium			3129.6641		3148.4160		1		P
Selenium	78		0.2524	B	0.3035	B	18		MS
Silver	107		0.0229	B	0.0176	B	26		MS
Sodium		102.4	120.5463		112.0794		7		P
Strontium			155.8316		154.3215		1		P
Thallium	203	0.1	0.2567		0.3128		20		MS
Tin			1.9382	B	1.9459	B	0		P
Titanium			832.4328		843.8091		1		P
Vanadium	51		51.6252		64.9113		23	*	MS
Zinc	66		55.0926		67.0591		20		MS
Zirconium			3.4044	B	4.1902	B	21		P

NOTE: An asterisk (\*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).

The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE258 3459

## METHODS:

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

## CONCENTRATION QUALIFIERS:

U = Below MDL  
B = Below LOQ

## FLAGS:

\* = Duplicate Out of Spec



## QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE258

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6423870BKG

Duplicate Lab Sample ID: 6423870DUP

% Solids for Duplicate: 95.6

% Solids for Sample: 95.6

Batch ID(s): P28026A

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Copper	63		5.0798		5.3399		5		MS

NOTE: An asterisk (\*) in column "Q" indicates poor duplicate precision (RPD > 20% OR  $|(S) - (D)| > LOQ$  for values < 5x LOQ).

The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

DE258 3428

## METHODS:

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

## CONCENTRATION QUALIFIERS:

U= Below MDL

B= Below LOQ

## FLAGS:

\* = Duplicate Out of Spec

# **SAMPLE DELIVERY GROUP**

**DE261**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Oct-2011	TB-100411	6429934	TB	3520C	1625C	III
04-Oct-2011	TB-100411	6429935	TB	3546	1625C	III
04-Oct-2011	TB-100411	6429936	TB	5030B	8015M	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3050B	6010B	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3050B	6020	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3060A	7199	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3546	1625C	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3550B	8015B	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3550B	8015M	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3550B	8082	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3550B	8270C	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	3550B	8270C SIM	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	5035	8015M	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	8330	8330A	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	300.0	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	314.0	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	7471A	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	8015B	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	8015M	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	8315A	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429928	N	METHOD	9012B	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3050B	6010B	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3050B	6020	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3060A	7199	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3546	1625C	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3550B	8015B	III

III = EPA Level 3 Data Review  
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
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3550B	8015M	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3550B	8082	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3550B	8270C	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	3550B	8270C SIM	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	5035	8015M	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	8330	8330A	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	300.0	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	314.0	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	7471A	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	8015B	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	8015M	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	8315A	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429929	N	METHOD	9012B	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3050B	6010B	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3050B	6020	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3060A	7199	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3550B	8015B	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3550B	8015M	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3550B	8082	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3550B	8270C	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	3550B	8270C SIM	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	5035	8015M	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	METHOD	300.0	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	METHOD	314.0	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	METHOD	7471A	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	METHOD	8015B	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429932	N	METHOD	8015M	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0DUP	P429932D270442B	DUP	METHOD	300.0	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0DUP	P429932D271929B	DUP	METHOD	314.0	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0MS	P429932R270519B	MS	METHOD	300.0	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0MS	P429932R272015B	MS	METHOD	314.0	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3050B	6010B	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3050B	6020	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3060A	7199	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3550B	8082	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3550B	8270C	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	3550B	8270C SIM	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	METHOD	300.0	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	METHOD	314.0	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	METHOD	6850	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429927	N	METHOD	7471A	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0MSD	P429927M242138A	MSD	METHOD	6850	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0MS	P429927R242125A	MS	METHOD	6850	III
04-Oct-2011	EB-SA6-SB-100411	6429933	EB	3520C	1625C	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3050B	6010B	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3050B	6020	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3060A	7199	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3546	1625C	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3550B	8015B	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3550B	8015M	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3550B	8082	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3550B	8270C	III

III = EPA Level 3 Data Review  
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
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	3550B	8270C SIM	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	5035	8015M	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	8330	8330A	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	300.0	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	314.0	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	7471A	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	8015B	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	8015M	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	8315A	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429931	N	METHOD	9012B	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3050B	6010B	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3050B	6020	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3060A	7199	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3546	1625C	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3550B	8015B	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3550B	8015M	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3550B	8082	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3550B	8270C	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	3550B	8270C SIM	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	5035	8015M	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	8330	8330A	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	300.0	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	314.0	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	7471A	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	8015B	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	8015M	III

III = EPA Level 3 Data Review  
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
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	8315A	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429930	N	METHOD	9012B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-191-SA6-SB-0.0-1.0      Collected: 10/4/2011 3:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.90	J	0.82	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-225-SA6-SB-3.0-4.0      Collected: 10/4/2011 10:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.93	J	0.86	MDL	1.1	PQL	mg/Kg	J	Z, Q

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

Sample ID: SL-007-SA6-SB-1.0-2.0      Collected: 10/4/2011 11:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.24	J	0.379	MDL	5.27	PQL	mg/Kg	U	B
POTASSIUM	2920		11.9	MDL	52.7	PQL	mg/Kg	J	Q
SODIUM	73.3	J	6.27	MDL	105	PQL	mg/Kg	J	Z
TIN	2.96	J	0.337	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	2.77	J	0.485	MDL	5.27	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA6-SB-4.0-5.0      Collected: 10/4/2011 8:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.84	J	0.362	MDL	5.02	PQL	mg/Kg	J	Z
POTASSIUM	1340		11.4	MDL	50.2	PQL	mg/Kg	J	Q
SODIUM	88.5	J	5.98	MDL	100	PQL	mg/Kg	J	Z
TIN	2.61	J	0.322	MDL	10.0	PQL	mg/Kg	U	B
Zirconium	2.72	J	0.462	MDL	5.02	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA6-SB-9.0-10.0      Collected: 10/4/2011 9:05:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.45	J	0.404	MDL	5.61	PQL	mg/Kg	U	B
POTASSIUM	1160		12.7	MDL	56.1	PQL	mg/Kg	J	Q
TIN	2.99	J	0.359	MDL	11.2	PQL	mg/Kg	U	B
Zirconium	2.95	J	0.516	MDL	5.61	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

<b>Sample ID:</b> SL-191-SA6-SB-0.0-1.0		<b>Collected:</b> 10/4/2011 3:15:00		<b>Analysis Type:</b> RES		<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>
BORON	2.00	J	0.355	MDL	4.93	PQL	mg/Kg	J	Z
POTASSIUM	2590		11.1	MDL	49.3	PQL	mg/Kg	J	Q
TIN	2.60	J	0.315	MDL	9.86	PQL	mg/Kg	U	B
Zirconium	3.01	J	0.453	MDL	4.93	PQL	mg/Kg	J	Z

<b>Sample ID:</b> SL-206-SA6-SB-4.0-5.0		<b>Collected:</b> 10/4/2011 3:00:00		<b>Analysis Type:</b> RES		<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>
BORON	0.558	J	0.370	MDL	5.14	PQL	mg/Kg	U	B
POTASSIUM	1800		11.6	MDL	51.4	PQL	mg/Kg	J	Q
SODIUM	83.7	J	6.11	MDL	103	PQL	mg/Kg	J	Z
TIN	3.01	J	0.329	MDL	10.3	PQL	mg/Kg	U	B
Zirconium	3.05	J	0.473	MDL	5.14	PQL	mg/Kg	J	Z

<b>Sample ID:</b> SL-225-SA6-SB-3.0-4.0		<b>Collected:</b> 10/4/2011 10:00:00		<b>Analysis Type:</b> RES		<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>
BORON	1.63	J	0.382	MDL	5.31	PQL	mg/Kg	U	B
POTASSIUM	2600		12.0	MDL	53.1	PQL	mg/Kg	J	Q
SODIUM	100	J	6.32	MDL	106	PQL	mg/Kg	J	Z
TIN	2.90	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.33	J	0.489	MDL	5.31	PQL	mg/Kg	J	Z

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

<b>Sample ID:</b> SL-007-SA6-SB-1.0-2.0		<b>Collected:</b> 10/4/2011 11:50:00		<b>Analysis Type:</b> REA		<b>Dilution:</b> 2			
<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>
SELENIUM	0.0613	J	0.0605	MDL	0.417	PQL	mg/Kg	J	Z

<b>Sample ID:</b> SL-007-SA6-SB-1.0-2.0		<b>Collected:</b> 10/4/2011 11:50:00		<b>Analysis Type:</b> REA3		<b>Dilution:</b> 2			
<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>
BARIUM	72.1		0.111	MDL	0.417	PQL	mg/Kg	J	A

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-007-SA6-SB-1.0-2.0

Collected: 10/4/2011 11:50:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0772	MDL	0.209	PQL	mg/Kg	UJ	B, Q
CADMIUM	0.0585	J	0.0459	MDL	0.104	PQL	mg/Kg	J	Z, Q
COBALT	4.47		0.0209	MDL	0.104	PQL	mg/Kg	J	Q, A
COPPER	5.37		0.0834	MDL	0.417	PQL	mg/Kg	J	Q, A
LEAD	3.51		0.0106	MDL	0.209	PQL	mg/Kg	J	A
NICKEL	8.49		0.104	MDL	0.417	PQL	mg/Kg	J	A
THALLIUM	0.222		0.0313	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	54.1		0.584	MDL	3.13	PQL	mg/Kg	J	A

Sample ID: SL-037-SA6-SB-4.0-5.0

Collected: 10/4/2011 8:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.106	J	0.0583	MDL	0.402	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA6-SB-4.0-5.0

Collected: 10/4/2011 8:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	52.1		0.107	MDL	0.402	PQL	mg/Kg	J	A

Sample ID: SL-037-SA6-SB-4.0-5.0

Collected: 10/4/2011 8:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.103	J	0.0744	MDL	0.201	PQL	mg/Kg	UJ	B, Q
COBALT	5.03		0.0201	MDL	0.100	PQL	mg/Kg	J	Q, A
COPPER	4.00		0.0804	MDL	0.402	PQL	mg/Kg	J	Q, A
LEAD	4.39		0.0102	MDL	0.201	PQL	mg/Kg	J	A
NICKEL	7.58		0.100	MDL	0.402	PQL	mg/Kg	J	A
SILVER	0.0330	J	0.0143	MDL	0.100	PQL	mg/Kg	J	Z, Q
THALLIUM	0.210		0.0301	MDL	0.100	PQL	mg/Kg	J	Q
ZINC	37.1		0.563	MDL	3.01	PQL	mg/Kg	J	A

Sample ID: SL-037-SA6-SB-9.0-10.0

Collected: 10/4/2011 9:05:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0771	J	0.0657	MDL	0.453	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-037-SA6-SB-9.0-10.0

Collected: 10/4/2011 9:05:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	77.5		0.120	MDL	0.453	PQL	mg/Kg	J	A

Sample ID: SL-037-SA6-SB-9.0-10.0

Collected: 10/4/2011 9:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.144	J	0.0838	MDL	0.227	PQL	mg/Kg	UJ	B, Q
COBALT	3.45		0.0227	MDL	0.113	PQL	mg/Kg	J	Q, A
COPPER	6.59		0.0906	MDL	0.453	PQL	mg/Kg	J	Q, A
LEAD	5.16		0.0116	MDL	0.227	PQL	mg/Kg	J	A
NICKEL	8.57		0.113	MDL	0.453	PQL	mg/Kg	J	A
SILVER	0.0467	J	0.0161	MDL	0.113	PQL	mg/Kg	J	Z, Q
THALLIUM	0.251		0.0340	MDL	0.113	PQL	mg/Kg	J	Q
ZINC	39.2		0.634	MDL	3.40	PQL	mg/Kg	J	A

Sample ID: SL-191-SA6-SB-0.0-1.0

Collected: 10/4/2011 3:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0608	J	0.0577	MDL	0.398	PQL	mg/Kg	J	Z

Sample ID: SL-191-SA6-SB-0.0-1.0

Collected: 10/4/2011 3:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	117		0.106	MDL	0.398	PQL	mg/Kg	J	A

Sample ID: SL-191-SA6-SB-0.0-1.0

Collected: 10/4/2011 3:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.259		0.0737	MDL	0.199	PQL	mg/Kg	UJ	B, Q
CADMIUM	0.223		0.0438	MDL	0.0995	PQL	mg/Kg	J	Q
COBALT	6.19		0.0199	MDL	0.0995	PQL	mg/Kg	J	Q, A
COPPER	12.6		0.0796	MDL	0.398	PQL	mg/Kg	J	Q, A
LEAD	10.8		0.0102	MDL	0.199	PQL	mg/Kg	J	A
NICKEL	14.0		0.0995	MDL	0.398	PQL	mg/Kg	J	A
SILVER	0.0948	J	0.0141	MDL	0.0995	PQL	mg/Kg	J	Z, Q
THALLIUM	0.234		0.0299	MDL	0.0995	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-191-SA6-SB-0.0-1.0      Collected: 10/4/2011 3:15:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	62.0		0.557	MDL	2.99	PQL	mg/Kg	J	A

Sample ID: SL-206-SA6-SB-4.0-5.0      Collected: 10/4/2011 3:00:00      Analysis Type: REA3      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	97.3		0.110	MDL	0.415	PQL	mg/Kg	J	A

Sample ID: SL-206-SA6-SB-4.0-5.0      Collected: 10/4/2011 3:00:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.132	J	0.0768	MDL	0.207	PQL	mg/Kg	UJ	B, Q
COBALT	6.00		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, A
COPPER	6.49		0.0830	MDL	0.415	PQL	mg/Kg	J	Q, A
LEAD	4.99		0.0106	MDL	0.207	PQL	mg/Kg	J	A
NICKEL	10.3		0.104	MDL	0.415	PQL	mg/Kg	J	A
SILVER	0.0261	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q
THALLIUM	0.267		0.0311	MDL	0.104	PQL	mg/Kg	J	Q
ZINC	61.4		0.581	MDL	3.11	PQL	mg/Kg	J	A

Sample ID: SL-225-SA6-SB-3.0-4.0      Collected: 10/4/2011 10:00:00      Analysis Type: REA      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-225-SA6-SB-3.0-4.0      Collected: 10/4/2011 10:00:00      Analysis Type: REA3      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIIUM	134		0.114	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: SL-225-SA6-SB-3.0-4.0      Collected: 10/4/2011 10:00:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.157	J	0.0794	MDL	0.215	PQL	mg/Kg	UJ	B, Q
CADMIUM	0.128		0.0472	MDL	0.107	PQL	mg/Kg	J	Q
COBALT	8.81		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, A

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-225-SA6-SB-3.0-4.0      Collected: 10/4/2011 10:00:00      Analysis Type: RES      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.9		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, A
LEAD	8.34		0.0109	MDL	0.215	PQL	mg/Kg	J	A
NICKEL	18.9		0.107	MDL	0.429	PQL	mg/Kg	J	A
SILVER	0.0489	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.343		0.0322	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	76.0		0.601	MDL	3.22	PQL	mg/Kg	J	A

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

Sample ID: SL-037-SA6-SB-4.0-5.0      Collected: 10/4/2011 8:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.41	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-037-SA6-SB-9.0-10.0      Collected: 10/4/2011 9:05:00      Analysis Type: RES      Dilution: 1

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

Sample ID: SL-225-SA6-SB-3.0-4.0      Collected: 10/4/2011 10:00:00      Analysis Type: RES      Dilution: 1

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

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

Sample ID: SL-007-SA6-SB-1.0-2.0      Collected: 10/4/2011 11:50:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0112	J	0.0072	MDL	0.102	PQL	mg/Kg	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-037-SA6-SB-4.0-5.0			Collected: 10/4/2011 8:25:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0105	J	0.0073	MDL	0.103	PQL	mg/Kg	U	B

Sample ID: SL-037-SA6-SB-9.0-10.0			Collected: 10/4/2011 9:05:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0107	J	0.0077	MDL	0.109	PQL	mg/Kg	U	B

Sample ID: SL-191-SA6-SB-0.0-1.0			Collected: 10/4/2011 3:15:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0347	J	0.0069	MDL	0.0986	PQL	mg/Kg	U	B

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

Sample ID: EB-SA6-SB-100411		Collected: 10/4/2011 2:00:00		Analysis Type: RES-BASE/NEUTRAL			Dilution: 1		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.24		0.478	MDL	0.955	PQL	ng/L	J	S

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

Sample ID: SL-037-SA6-SB-9.0-10.0			Collected: 10/4/2011 9:05:00		Analysis Type: REA2			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.55	J	0.46	MDL	1.4	PQL	mg/Kg	J	Z

Sample ID: SL-206-SA6-SB-4.0-5.0			Collected: 10/4/2011 3:00:00		Analysis Type: REA2			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.76	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-225-SA6-SB-3.0-4.0      Collected: 10/4/2011 10:00:00      Analysis Type: REA2      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.0	J	0.44	MDL	1.3	PQL	mg/Kg	J	Z

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

Sample ID: SL-037-SA6-SB-4.0-5.0      Collected: 10/4/2011 8:25:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	17	MDL	340	PQL	ug/Kg	J	Z

Sample ID: SL-191-SA6-SB-0.0-1.0      Collected: 10/4/2011 3:15:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	190	J	17	MDL	330	PQL	ug/Kg	J	Z

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

Sample ID: SL-037-SA6-SB-4.0-5.0      Collected: 10/4/2011 8:25:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	0.41	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.77	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-191-SA6-SB-0.0-1.0      Collected: 10/4/2011 3:15:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	0.42	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
ANTHRACENE	0.74	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	1.6	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z
NAPHTHALENE	0.78	J	0.67	MDL	1.7	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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: DE261

Laboratory: LL

EDD Filename: DE261\_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: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DE261

# Method Blank Outlier Report

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27908DB222239	10/16/2011 10:39:00 PM	BORON CALCIUM PHOSPHORUS STRONTIUM TIN	0.360 mg/Kg 10.1 mg/Kg 1.26 mg/Kg 0.0420 mg/Kg 1.39 mg/Kg	SL-007-SA6-SB-1.0-2.0 SL-037-SA6-SB-4.0-5.0 SL-037-SA6-SB-9.0-10.0 SL-191-SA6-SB-0.0-1.0 SL-206-SA6-SB-4.0-5.0 SL-225-SA6-SB-3.0-4.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-007-SA6-SB-1.0-2.0(RES)	BORON	1.24 mg/Kg	1.24U mg/Kg
SL-007-SA6-SB-1.0-2.0(RES)	TIN	2.96 mg/Kg	2.96U mg/Kg
SL-037-SA6-SB-4.0-5.0(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-037-SA6-SB-9.0-10.0(RES)	BORON	1.45 mg/Kg	1.45U mg/Kg
SL-037-SA6-SB-9.0-10.0(RES)	TIN	2.99 mg/Kg	2.99U mg/Kg
SL-191-SA6-SB-0.0-1.0(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-206-SA6-SB-4.0-5.0(RES)	BORON	0.558 mg/Kg	0.558U mg/Kg
SL-206-SA6-SB-4.0-5.0(RES)	TIN	3.01 mg/Kg	3.01U mg/Kg
SL-225-SA6-SB-3.0-4.0(RES)	BORON	1.63 mg/Kg	1.63U mg/Kg
SL-225-SA6-SB-3.0-4.0(RES)	TIN	2.90 mg/Kg	2.90U mg/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-225-SA6-SB-3.0-4.0MS (SL-225-SA6-SB-3.0-4.0)	FLUORIDE	49	-	80.00-120.00	-	FLUORIDE	J (all detects) UJ (all non-detects)

## Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-225-SA6-SB-3.0-4.0DUP (SL-225-SA6-SB-3.0-4.0)	FLUORIDE	42	20.00	No Qual, OK by Difference

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method: 8020**  
**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27926BQ220650A (SL-007-SA6-SB-1.0-2.0 SL-037-SA6-SB-4.0-5.0 SL-037-SA6-SB-9.0-10.0 SL-191-SA6-SB-0.0-1.0 SL-206-SA6-SB-4.0-5.0 SL-225-SA6-SB-3.0-4.0)	ANTIMONY	124	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

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

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LELCSQ260717 (SL-007-SA6-SB-1.0-2.0 SL-037-SA6-SB-4.0-5.0 SL-037-SA6-SB-9.0-10.0 SL-191-SA6-SB-0.0-1.0 SL-206-SA6-SB-4.0-5.0 SL-225-SA6-SB-3.0-4.0)	2,4,5-TRICHLOROPHENOL	109	-	76.00-107.00	-	2,4,5-TRICHLOROPHENOL	J(all detects)

# Surrogate Outlier Report

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1625C  
Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-100411	N-Nitrosodimethylamine-d6	381	50.00-150.00	All Target Analytes	J (all detects)

Method: 1625C  
Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-037-SA6-SB-4.0-5.0	N-Nitrosodimethylamine-d6	153	50.00-150.00	All Target Analytes	No Qual, Diluted Out
SL-037-SA6-SB-9.0-10.0	N-Nitrosodimethylamine-d6	155	50.00-150.00	All Target Analytes	J(all detects)
SL-191-SA6-SB-0.0-1.0	N-Nitrosodimethylamine-d6	169	50.00-150.00	All Target Analytes	J(all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-191-SA6-SB-0.0-1.0	FLUORIDE	J	0.90	1.0	PQL	mg/Kg	J (all detects)
SL-225-SA6-SB-3.0-4.0	FLUORIDE	J	0.93	1.1	PQL	mg/Kg	J (all detects)

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA6-SB-1.0-2.0	BORON	J	1.24	5.27	PQL	mg/Kg	J (all detects)
	SODIUM	J	73.3	105	PQL	mg/Kg	
	TIN	J	2.96	10.5	PQL	mg/Kg	
	Zirconium	J	2.77	5.27	PQL	mg/Kg	
SL-037-SA6-SB-4.0-5.0	BORON	J	1.84	5.02	PQL	mg/Kg	J (all detects)
	SODIUM	J	88.5	100	PQL	mg/Kg	
	TIN	J	2.61	10.0	PQL	mg/Kg	
	Zirconium	J	2.72	5.02	PQL	mg/Kg	
SL-037-SA6-SB-9.0-10.0	BORON	J	1.45	5.61	PQL	mg/Kg	J (all detects)
	TIN	J	2.99	11.2	PQL	mg/Kg	
	Zirconium	J	2.95	5.61	PQL	mg/Kg	
SL-191-SA6-SB-0.0-1.0	BORON	J	2.00	4.93	PQL	mg/Kg	J (all detects)
	TIN	J	2.60	9.86	PQL	mg/Kg	
	Zirconium	J	3.01	4.93	PQL	mg/Kg	
SL-206-SA6-SB-4.0-5.0	BORON	J	0.558	5.14	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.7	103	PQL	mg/Kg	
	TIN	J	3.01	10.3	PQL	mg/Kg	
	Zirconium	J	3.05	5.14	PQL	mg/Kg	
SL-225-SA6-SB-3.0-4.0	BORON	J	1.63	5.31	PQL	mg/Kg	J (all detects)
	SODIUM	J	100	106	PQL	mg/Kg	
	TIN	J	2.90	10.6	PQL	mg/Kg	
	Zirconium	J	3.33	5.31	PQL	mg/Kg	

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

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA6-SB-1.0-2.0	ANTIMONY	J	0.101	0.209	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0585	0.104	PQL	mg/Kg	
	SELENIUM	J	0.0613	0.417	PQL	mg/Kg	
SL-037-SA6-SB-4.0-5.0	ANTIMONY	J	0.103	0.201	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.106	0.402	PQL	mg/Kg	
	SILVER	J	0.0330	0.100	PQL	mg/Kg	
SL-037-SA6-SB-9.0-10.0	ANTIMONY	J	0.144	0.227	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0771	0.453	PQL	mg/Kg	
	SILVER	J	0.0467	0.113	PQL	mg/Kg	
SL-191-SA6-SB-0.0-1.0	SELENIUM	J	0.0608	0.398	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0948	0.0995	PQL	mg/Kg	
SL-206-SA6-SB-4.0-5.0	ANTIMONY	J	0.132	0.207	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0261	0.104	PQL	mg/Kg	



## Reporting Limit Outliers

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 6020

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-225-SA6-SB-3.0-4.0	ANTIMONY	J	0.157	0.215	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.429	PQL	mg/Kg	
	SILVER	J	0.0489	0.107	PQL	mg/Kg	

**Method:** 7199

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.41	1.1	PQL	mg/Kg	J (all detects)
SL-037-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.27	1.2	PQL	mg/Kg	J (all detects)
SL-225-SA6-SB-3.0-4.0	HEXAVALENT CHROMIUM	J	0.21	1.0	PQL	mg/Kg	J (all detects)

**Method:** 7471A

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-007-SA6-SB-1.0-2.0	MERCURY	J	0.0112	0.102	PQL	mg/Kg	J (all detects)
SL-037-SA6-SB-4.0-5.0	MERCURY	J	0.0105	0.103	PQL	mg/Kg	J (all detects)
SL-037-SA6-SB-9.0-10.0	MERCURY	J	0.0107	0.109	PQL	mg/Kg	J (all detects)
SL-191-SA6-SB-0.0-1.0	MERCURY	J	0.0347	0.0986	PQL	mg/Kg	J (all detects)

**Method:** 8015M

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SB-9.0-10.0	EFH (C15-C20)	J	0.55	1.4	PQL	mg/Kg	J (all detects)
SL-206-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.76	1.3	PQL	mg/Kg	J (all detects)
SL-225-SA6-SB-3.0-4.0	EFH (C21-C30)	J	1.0	1.3	PQL	mg/Kg	J (all detects)

**Method:** 8270C

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	340	PQL	ug/Kg	J (all detects)
SL-191-SA6-SB-0.0-1.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	190	330	PQL	ug/Kg	J (all detects)

## Reporting Limit Outliers

Lab Reporting Batch ID: DE261

Laboratory: LL

EDD Filename: DE261\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SB-4.0-5.0	CHRYSENE	J	0.41	1.7	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.77	1.7	PQL	ug/Kg	
SL-191-SA6-SB-0.0-1.0	ACENAPHTHYLENE	J	0.42	1.7	PQL	ug/Kg	J (all detects)
	ANTHRACENE	J	0.74	1.7	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	1.6	1.7	PQL	ug/Kg	
	NAPHTHALENE	J	0.78	1.7	PQL	ug/Kg	

LDC #: 26864E4

## VALIDATION COMPLETENESS WORKSHEET

SDG #: DE261

ADR

Laboratory: Lancaster Laboratories

Date: 1/4/12

Page: 1 of 1

Reviewer: w

2nd Reviewer: e

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N SW	108 v62
VII.	Duplicate Sample Analysis	N A	
VIII.	Laboratory Control Samples (LCS)	N A	SEM
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Co, Cu, Pb, Ni, Zn J/WJ
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-007-SA6-SB-1.0-2.0	11		21		31	
2	SL-037-SA6-SB-4.0-5.0	12		22		32	
3	SL-037-SA6-SB-9.0-10.0	13		23		33	
4	SL-191-SA6-SB-0.0-1.0	14		24		34	
5	SL-206-SA6-SB-4.0-5.0	15		25		35	
6	SL-225-SA6-SB-3.0-4.0	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

## PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: SA

Soil preparation factor applied: Sb:200X, Hg: 167X

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

Associated Samples: All Reason: B

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/L)	Maximum ICBI/CCB <sup>a</sup> (ug/L)	Action Limit	1	2	3	4	5	6		
Sb			0.30	0.30	0.10	0.10	0.14	0.26	0.13	0.16		
Hg			0.042	0.035	0.011	0.011	0.011	0.035				

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



QUALITY ASSURANCE SUMMARY  
FORM 5A (MS/MSD)  
MATRIX SPIKE/MATRIX SPIKE DUPLICATE  
SDG No.: DE262  
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6430028BKG Matrix Spike Lab Sample ID: 6430029MS Matrix Spike Duplicate Lab Sample ID: 6430030MSD

\* Solids for Sample: 91.7

Batch Id(s): P29208B, P27926B, P27908D, P27911B

Analyte	Mass	BKG Sample		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 M
Aluminum		23997.5577		28040.6932		27143.3074		213.8260	215.9431	MG/KG	1891		1457		75	20P
Antimony	121	0.2690		0.8248		0.8791		1.2705	1.2957	MG/KG	44	N	47	N	75 - 125	20MS
Arsenic	75	7.2145		9.1074		9.8600		2.1175	2.1594	MG/KG	89		123		75 - 125	20MS
Barium	137	146.7488		150.8931		157.8544		10.5875	10.7972	MG/KG	39		103		75 - 125	20MS
Beryllium	9	1.0514		1.8761		1.9951		0.8470	0.8638	MG/KG	97		109		75 - 125	20MS
Boron		2.9326	B	214.2987		209.0858		215.9431	215.9431	MG/KG	98		95		84 - 115	20P
Cadmium	111	0.0910	B	1.3717		1.4742		1.0588	1.0797	MG/KG	121		128	N	75 - 125	20MS
Calcium		2316.4047		2900.4168		2900.5204		431.8862	431.8862	MG/KG	135		135		75 - 125	20P
Chromium	52	29.3797		39.1102		40.5109		10.5875	10.7972	MG/KG	92		103		75 - 125	20MS
Cobalt	59	9.3827		73.7102		77.8259		52.9375	53.9858	MG/KG	122		127	N	75 - 125	20MS
Copper	63	11.5060		23.9913		25.0926		10.5875	10.7972	MG/KG	118		126	N	75 - 125	20MS
Iron		25723.3175		26754.2669		25160.2827		106.9130	107.9715	MG/KG	964		-521		75 - 125	20P
Lead	208	8.0270		11.3922		12.0820		3.1763	3.2391	MG/KG	106		125		75 - 125	20MS
Lithium		27.8434		139.1095		138.2079		107.9715	107.9715	MG/KG	103		102		82 - 114	20P
Magnesium		5855.5071		6416.2967		6034.2551		213.8260	215.9431	MG/KG	262		83		75	20P
Manganese		353.2298		377.9997		380.1851		53.9858	53.9858	MG/KG	46		50		65 - 135	20CV
Mercury		0.0152	B	0.1798		0.1757		0.1762	0.1766	MG/KG	93		91		75 - 125	20MS
Molybdenum	98	1.0356		14.1216		14.5567		10.5875	10.7972	MG/KG	124		125		75 - 125	20MS
Nickel	60	19.6656		31.0002		32.9961		10.5875	10.7972	MG/KG	107		123		75 - 125	20P
Phosphorus		183.7503		294.3196		283.8734		107.9715	107.9715	MG/KG	102		93		75 - 125	20P
Potassium		2083.5514		3441.9038		3488.5043		1079.7154	1079.7154	MG/KG	126	N	130	N	75 - 125	20P
Selenium	78	0.0908	B	2.2530		2.5244		2.1175	2.1594	MG/KG	102		113		75 - 125	20MS
Silver	107	0.1293		13.2068		14.0298		10.5875	10.7972	MG/KG	124		129	N	75 - 125	20MS
Sodium		130.0458		1163.4387		1154.3475		1079.7154	1079.7154	MG/KG	96		95		75 - 125	20P
Strontium		21.7493		126.2673		124.3767		107.9715	107.9715	MG/KG	97		95		75 - 125	20MS
Thallium	203	0.3795		0.8745		0.9435		0.4235	0.4319	MG/KG	117		131	N	80 - 110	20P
Tin		2.9455	B	405.7624		398.5165		431.8862	431.8862	MG/KG	93		92		75 - 125	20P
Titanium		1393.0646		1663.9613		1686.1991		107.9715	107.9715	MG/KG	251		271		75 - 125	20MS
Tungsten	51	59.0801		67.1671		70.5918		10.5875	10.7972	MG/KG	76		107		75 - 125	20MS
Vanadium	66	75.4806		81.8626		85.3623		10.5875	10.7972	MG/KG	60		92		75 - 125	20MS
Zinc		3.8638	B	110.3825		109.8913		107.9715	107.9715	MG/KG	99		98		81 - 110	20P
Zirconium																

CONCENTRATION QUALIFIERS:

U= Below MDL, B= Below LOQ

FLAGS:

N = Matrix Spike OOS, \* = Duplicate OOS

METHODS: N

P = ICP Atomic Emission Spectrometer CV = Cold Vapor

MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

# **SAMPLE DELIVERY GROUP**

**DE262**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Oct-2011	TB-100511	6430037	TB	3520C	1625C	III
05-Oct-2011	TB-100511	6430038	TB	3546	1625C	III
05-Oct-2011	TB-100511	6430039	TB	5030B	8015M	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3050B	6010B	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3050B	6020	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3060A	7199	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3550B	8082	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3550B	8270C	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	3550B	8270C SIM	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	METHOD	300.0	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	METHOD	314.0	III
05-Oct-2011	SL-301-SA6-SB-4.0-5.0	6430034	N	METHOD	7471A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3050B	6010B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3050B	6020	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3060A	7199	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3546	1625C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3550B	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3550B	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3550B	8082	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3550B	8270C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	3550B	8270C SIM	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	5035	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	8330	8330A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	300.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	314.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	7471A	III

III = EPA Level 3 Data Review  
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
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	8315A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0	6430028	N	METHOD	9012B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3050B	6010B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3050B	6020	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3060A	7199	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3546	1625C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3550B	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3550B	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3550B	8082	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3550B	8270C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	3550B	8270C SIM	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	5035	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	8330	8330A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	300.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	314.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	7471A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	8315A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MS	6430029	MS	METHOD	9012B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3050B	6010B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3050B	6020	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3546	1625C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3550B	8015B	III

III = EPA Level 3 Data Review  
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MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3550B	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3550B	8082	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3550B	8270C	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	3550B	8270C SIM	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	5035	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	8330	8330A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	METHOD	7471A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	METHOD	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	METHOD	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0MSD	6430030	MSD	METHOD	8315A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	3050B	6010B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	3050B	6020	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	3060A	7199	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	METHOD	300.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	METHOD	314.0	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	METHOD	7471A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0DUP	6430031	DUP	METHOD	9012B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	3550B	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	3550B	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	3550B	8082	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	8330	8330A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	METHOD	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLMS	6430032	N	METHOD	8315A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	3550B	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	3550B	8015M	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	3550B	8082	III

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## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	8330	8330A	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	METHOD	8015B	III
05-Oct-2011	SL-319-SA6-SB-4.0-5.0RLLC	6430033	N	METHOD	8315A	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3050B	6010B	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3050B	6020	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3060A	7199	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3546	1625C	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3550B	8015B	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3550B	8015M	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3550B	8082	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3550B	8270C	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	3550B	8270C SIM	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	5035	8015M	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	8330	8330A	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	300.0	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	314.0	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	7471A	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	8015B	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	8015M	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	8315A	III
05-Oct-2011	DUP16-SA6-QC-100511	6430035	FD	METHOD	9012B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3005A	6010B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3020A	6020	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3510C	8015B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3510C	8015M	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3510C	8082	III

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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
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3510C	8270C	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3510C	8270C SIM	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	3520C	1625C	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	5030B	8015M	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	5030B	8260B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	5030B	8260B SIM	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	8330	8330A	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	300.0	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	314.0	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	7199	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	8015B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	8015M	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	Gen Prep	9012B	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	METHOD	7470A	III
05-Oct-2011	EB-SA6-SB-100511	6430040	EB	METHOD	8315A	III
05-Oct-2011	EB-SA6-SB-100511MSD	P430040M321723A	MSD	Gen Prep	8015M	III
05-Oct-2011	EB-SA6-SB-100511MS	P430040R321710A	MS	Gen Prep	8015M	III
05-Oct-2011	EB-SA6-SB-100511	6430036	EB	3520C	1625C	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: DUP16-SA6-QC-100511

Collected: 10/5/2011 10:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.7		0.86	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-301-SA6-SB-4.0-5.0

Collected: 10/5/2011 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.4		0.87	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-319-SA6-SB-4.0-5.0

Collected: 10/5/2011 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.5		0.86	MDL	1.1	PQL	mg/Kg	J	Q
Nitrate-NO3	1.3	J	0.86	MDL	1.6	PQL	mg/Kg	J	Z

Method Category: METALS

Method: 6010B

Matrix: AQ

Sample ID: EB-SA6-SB-100511

Collected: 10/5/2011 2:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	0.00030	J	0.00022	MDL	0.0050	PQL	mg/L	U	B

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: DUP16-SA6-QC-100511

Collected: 10/5/2011 10:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.79	J	0.382	MDL	5.31	PQL	mg/Kg	U	B
POTASSIUM	2180		12.0	MDL	53.1	PQL	mg/Kg	J	Q
TIN	3.06	J	0.340	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	4.45	J	0.488	MDL	5.31	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

**Sample ID:** SL-301-SA6-SB-4.0-5.0

**Collected:** 10/5/2011 8:25:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	1.55	J	0.378	MDL	5.25	PQL	mg/Kg	U	B
POTASSIUM	1500		11.9	MDL	52.5	PQL	mg/Kg	J	Q
TIN	2.85	J	0.336	MDL	10.5	PQL	mg/Kg	U	B
Zirconium	3.93	J	0.483	MDL	5.25	PQL	mg/Kg	J	Z

**Sample ID:** SL-319-SA6-SB-4.0-5.0

**Collected:** 10/5/2011 10:15:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	2.93	J	0.385	MDL	5.35	PQL	mg/Kg	J	Z
POTASSIUM	2080		12.1	MDL	53.5	PQL	mg/Kg	J	Q
TIN	2.95	J	0.342	MDL	10.7	PQL	mg/Kg	U	B
Zirconium	3.86	J	0.492	MDL	5.35	PQL	mg/Kg	J	Z

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

**Sample ID:** DUP16-SA6-QC-100511

**Collected:** 10/5/2011 10:35:00

**Analysis Type:** REA

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0686	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z

**Sample ID:** DUP16-SA6-QC-100511

**Collected:** 10/5/2011 10:35:00

**Analysis Type:** REA3

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.114	MDL	0.429	PQL	mg/Kg	J	A

**Sample ID:** DUP16-SA6-QC-100511

**Collected:** 10/5/2011 10:35:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.180	J	0.0793	MDL	0.214	PQL	mg/Kg	UJ	Q, B
CADMIUM	0.0778	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z, Q
COBALT	8.31		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, A
COPPER	9.33		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, A
LEAD	6.38		0.0109	MDL	0.214	PQL	mg/Kg	J	A
NICKEL	14.8		0.107	MDL	0.429	PQL	mg/Kg	J	A

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: DUP16-SA6-QC-100511

Collected: 10/5/2011 10:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.117		0.0152	MDL	0.107	PQL	mg/Kg	J	Q
THALLIUM	0.312		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	67.8		0.600	MDL	3.21	PQL	mg/Kg	J	A

Sample ID: SL-301-SA6-SB-4.0-5.0

Collected: 10/5/2011 8:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.106	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-301-SA6-SB-4.0-5.0

Collected: 10/5/2011 8:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	112		0.114	MDL	0.429	PQL	mg/Kg	J	A

Sample ID: SL-301-SA6-SB-4.0-5.0

Collected: 10/5/2011 8:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.173	J	0.0793	MDL	0.214	PQL	mg/Kg	UJ	Q, B
CADMIUM	0.0709	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z, Q
COBALT	10.5		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, A
COPPER	8.09		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, A
LEAD	7.65		0.0109	MDL	0.214	PQL	mg/Kg	J	A
NICKEL	16.8		0.107	MDL	0.429	PQL	mg/Kg	J	A
SILVER	0.0739	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q
THALLIUM	0.284		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	58.3		0.600	MDL	3.21	PQL	mg/Kg	J	A

Sample ID: SL-319-SA6-SB-4.0-5.0

Collected: 10/5/2011 10:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0908	J	0.0620	MDL	0.428	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-319-SA6-SB-4.0-5.0

Collected: 10/5/2011 10:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	147		0.113	MDL	0.428	PQL	mg/Kg	J	A

Sample ID: SL-319-SA6-SB-4.0-5.0

Collected: 10/5/2011 10:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.269		0.0791	MDL	0.214	PQL	mg/Kg	UJ	Q, B
CADMIUM	0.0910	J	0.0470	MDL	0.107	PQL	mg/Kg	J	Z, Q
COBALT	9.38		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, A
COPPER	11.5		0.0855	MDL	0.428	PQL	mg/Kg	J	Q, A
LEAD	8.03		0.0109	MDL	0.214	PQL	mg/Kg	J	A
NICKEL	19.7		0.107	MDL	0.428	PQL	mg/Kg	J	A
SILVER	0.129		0.0152	MDL	0.107	PQL	mg/Kg	J	Q
THALLIUM	0.380		0.0321	MDL	0.107	PQL	mg/Kg	J	Q
ZINC	75.5		0.599	MDL	3.21	PQL	mg/Kg	J	A

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: DUP16-SA6-QC-100511

Collected: 10/5/2011 10:35:00

Analysis Type: RES

Dilution: 1

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

Sample ID: SL-301-SA6-SB-4.0-5.0

Collected: 10/5/2011 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-319-SA6-SB-4.0-5.0

Collected: 10/5/2011 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z, FD

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 7470A

**Matrix:** AQ

**Sample ID:** EB-SA6-SB-100511

**Collected:** 10/5/2011 2:00:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000056	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

**Method Category:** METALS

**Method:** 7471A

**Matrix:** SO

**Sample ID:** DUP16-SA6-QC-100511

**Collected:** 10/5/2011 10:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0102	J	0.0074	MDL	0.106	PQL	mg/Kg	U	B, F

**Sample ID:** SL-301-SA6-SB-4.0-5.0

**Collected:** 10/5/2011 8:25:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0198	J	0.0075	MDL	0.106	PQL	mg/Kg	U	B, F

**Sample ID:** SL-319-SA6-SB-4.0-5.0

**Collected:** 10/5/2011 10:15:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0152	J	0.0073	MDL	0.104	PQL	mg/Kg	U	B, F

**Method Category:** SVOA

**Method:** 1625C

**Matrix:** AQ

**Sample ID:** EB-SA6-SB-100511

**Collected:** 10/5/2011 2:00:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.69		0.491	MDL	0.982	PQL	ng/L	J	S

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 8015M

Matrix: AQ

Sample ID: EB-SA6-SB-100511

Collected: 10/5/2011 2:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	20	U	20	MDL	200	PQL	mg/L	UJ	Q
Propylene glycol	20	U	20	MDL	200	PQL	mg/L	UJ	Q

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: DUP16-SA6-QC-100511

Collected: 10/5/2011 10:35:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	11		0.44	MDL	1.3	PQL	mg/Kg	J	FD

Sample ID: SL-319-SA6-SB-4.0-5.0

Collected: 10/5/2011 10:15:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.9		0.44	MDL	1.3	PQL	mg/Kg	J	Q
EFH (C30-C40)	5.9		0.44	MDL	1.3	PQL	mg/Kg	J	Q, FD

Sample ID: SL-319-SA6-SB-4.0-5.0

Collected: 10/5/2011 10:15:00

Analysis Type: RES

Dilution: 1

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

Method Category: SVOA

Method: 8082

Matrix: AQ

Sample ID: EB-SA6-SB-100511

Collected: 10/5/2011 2:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	E
AROCLOR 1221	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	E
AROCLOR 1232	0.20	U	0.20	MDL	0.50	PQL	ug/L	UJ	E
AROCLOR 1242	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	E
AROCLOR 1248	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 8082

**Matrix:** AQ

**Sample ID:** EB-SA6-SB-100511

**Collected:** 10/5/2011 2:00:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.099	U	0.099	MDL	0.50	PQL	ug/L	UJ	E
AROCLOR 1260	0.15	U	0.15	MDL	0.50	PQL	ug/L	UJ	E
Aroclor 1262	0.20	U	0.20	MDL	0.50	PQL	ug/L	UJ	E
Aroclor 1268	0.16	U	0.16	MDL	0.50	PQL	ug/L	UJ	E

**Method Category:** SVOA

**Method:** 8082

**Matrix:** SO

**Sample ID:** DUP16-SA6-QC-100511

**Collected:** 10/5/2011 10:35:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1260	0.43	U	0.43	MDL	1.9	PQL	ug/Kg	UJ	FD

**Sample ID:** SL-319-SA6-SB-4.0-5.0

**Collected:** 10/5/2011 10:15:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.55	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z, FD
AROCLOR 1260	1.0	J	0.43	MDL	1.9	PQL	ug/Kg	J	Z, FD

**Sample ID:** SL-319-SA6-SB-4.0-5.0RL LCS

**Collected:** 10/5/2011 10:15:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	2.0		0.33	MDL	1.7	PQL	ug/Kg	J	S
AROCLOR 1260	2.1		0.39	MDL	1.7	PQL	ug/Kg	J	S

**Sample ID:** SL-319-SA6-SB-4.0-5.0RLMS

**Collected:** 10/5/2011 10:15:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	2.1		0.36	MDL	1.8	PQL	ug/Kg	J	S
AROCLOR 1260	2.4		0.42	MDL	1.8	PQL	ug/Kg	J	S

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-319-SA6-SB-4.0-5.0

Collected: 10/5/2011 10:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZIDINE	1300	U	1300	MDL	3600	PQL	ug/Kg	R	Q
BIS(2-ETHYLHEXYL)PHTHALATE	28	J	18	MDL	360	PQL	ug/Kg	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: AQ

Sample ID: EB-SA6-SB-100511

Collected: 10/5/2011 2:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	0.11	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Diethylphthalate	0.26	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Di-n-butylphthalate	0.70	J	0.048	MDL	0.95	PQL	ug/L	J	Z
NAPHTHALENE	0.034	J	0.029	MDL	0.048	PQL	ug/L	J	Z

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: DUP16-SA6-QC-100511

Collected: 10/5/2011 10:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
BENZO(K)FLUORANTHENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
CHRYSENE	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	FD
FLUORANTHENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
PHENANTHRENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD
PYRENE	0.72	U	0.72	MDL	1.8	PQL	ug/Kg	UJ	FD

Sample ID: SL-301-SA6-SB-4.0-5.0

Collected: 10/5/2011 8:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(K)FLUORANTHENE	1.7	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z
CHRYSENE	0.69	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
FLUORANTHENE	0.88	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-319-SA6-SB-4.0-5.0

Collected: 10/5/2011 10:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.1	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(G,H,I)PERYLENE	0.74	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
BENZO(K)FLUORANTHENE	0.92	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
CHRYSENE	1.4	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z, FD
FLUORANTHENE	2.6		0.72	MDL	1.8	PQL	ug/Kg	J	FD
PHENANTHRENE	0.96	J	0.72	MDL	1.8	PQL	ug/Kg	J	Z, FD
PYRENE	1.9		0.72	MDL	1.8	PQL	ug/Kg	J	FD

Method Category: SVOA

Method: 8330A

Matrix: SO

Sample ID: SL-319-SA6-SB-4.0-5.0

Collected: 10/5/2011 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitroglycerin	870	U	870	MDL	2600	PQL	ug/Kg	UJ	Q
PETN	870	U	870	MDL	2600	PQL	ug/Kg	UJ	Q

\* denotes a non-reportable result

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: DE262

Laboratory: LL

EDD Filename: DE262\_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: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DE262

# Method Blank Outlier Report

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28448IB220323	10/14/2011 3:23:00 AM	STRONTIUM	0.00035 mg/L	EB-SA6-SB-100511

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-100511(REA)	STRONTIUM	0.00030 mg/L	0.00030U mg/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P27908DB222239	10/16/2011 10:39:00 PM	BORON CALCIUM PHOSPHORUS STRONTIUM TIN	0.360 mg/Kg 10.1 mg/Kg 1.26 mg/Kg 0.0420 mg/Kg 1.39 mg/Kg	DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP16-SA6-QC-100511(RES)	BORON	1.79 mg/Kg	1.79U mg/Kg
DUP16-SA6-QC-100511(RES)	TIN	3.06 mg/Kg	3.06U mg/Kg
SL-301-SA6-SB-4.0-5.0(RES)	BORON	1.55 mg/Kg	1.55U mg/Kg
SL-301-SA6-SB-4.0-5.0(RES)	TIN	2.85 mg/Kg	2.85U mg/Kg
SL-319-SA6-SB-4.0-5.0(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg

**Method:** 7470A  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28313EB221002	10/11/2011 10:02:00 AM	MERCURY	0.000063 mg/L	EB-SA6-SB-100511

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-100511(RES)	MERCURY	0.000056 mg/L	0.000056U mg/L

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method: 8015M**

**Matrix: AQ**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
EB-SA6-SB-100511MS EB-SA6-SB-100511MSD (EB-SA6-SB-100511)	ETHYLENE GLYCOL Propylene glycol	74 65	- -	89.00-125.00 91.00-128.00	40 (20.00) 47 (20.00)	ETHYLENE GLYCOL Propylene glycol	J(all detects) UJ(all non-detects)

**Method: 8015M**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (SL-319-SA6-SB-4.0-5.0)	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	28 58 61	34 61 -	59.00-109.00 63.00-107.00 63.00-107.00	- - -	DIETHYLENE GLYCOL ETHYLENE GLYCOL Propylene glycol	J (all detects) UJ (all non-detects)

**Method: 8330A**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MSD (SL-319-SA6-SB-4.0-5.0)	Nitroglycerin PETN	- -	76 79	80.00-120.00 80.00-121.00	- -	Nitroglycerin PETN	J(all detects) UJ(all non-detects)

**Method: 8015M**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (SL-319-SA6-SB-4.0-5.0)	EFH (C21-C30) EFH (C30-C40)	- 171	135 251	49.00-123.00 49.00-123.00	- -	EFH (C21-C30) EFH (C30-C40)	J(all detects)

**Method: 6020**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MSD (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	CADMIUM COBALT COPPER SILVER THALLIUM	- - - - -	128 127 126 129 131	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	CADMIUM COBALT COPPER SILVER THALLIUM	J(all detects)
SL-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	ANTIMONY ZINC	44 60	47 -	75.00-125.00 75.00-125.00	- -	ANTIMONY ZINC	J(all detects) UJ(all non-detects)  Zn, No Qual, >4x

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

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MS (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	BARIUM	39	-	75.00-125.00	-	BARIUM	No Qual, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	CALCIUM POTASSIUM TITANIUM	135 126 251	135 130 271	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CALCIUM POTASSIUM TITANIUM	J(all detects) Ca, Ti, No Qual, >4x
SL-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	MANGANESE	46	50	75.00-125.00	-	MANGANESE	No Qual, >4x

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (SL-319-SA6-SB-4.0-5.0)	BIS(2-CHLOROETHOXY)METHA ISOPHORONE	105 106	- 106	75.00-104.00 73.00-102.00	- -	BIS(2-CHLOROETHOXY)METH ISOPHORONE	J(all detects)
SL-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (SL-319-SA6-SB-4.0-5.0)	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	J(all detects) R(all non-detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MSD (SL-319-SA6-SB-4.0-5.0)	BIS(2-ETHYLHEXYL)PHTHALAT	-	195	39.00-167.00	44 (30.00)	BIS(2-ETHYLHEXYL)PHTHALA	J(all detects)

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MS (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	FLUORIDE	43	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	ALUMINUM MAGNESIUM	1891 262	1457 -	75.00-125.00 75.00-125.00	- -	ALUMINUM MAGNESIUM	No Qual, >4x
SL-319-SA6-SB-4.0-5.0MS SL-319-SA6-SB-4.0-5.0MSD (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	IRON	964	-521	75.00-125.00	-	IRON	No Qual, >4x

# Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-319-SA6-SB-4.0-5.0DUP (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	Zirconium	29	20.00	No Qual, OK by Difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-319-SA6-SB-4.0-5.0DUP (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	ANTIMONY	37	20.00	No Qual, OK by Difference

Method: 7199

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-319-SA6-SB-4.0-5.0DUP (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	HEXAVALENT CHROMIUM	200	20.00	No Qual, OK by Difference

Method: 7471A

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-319-SA6-SB-4.0-5.0DUP (DUP16-SA6-QC-100511 SL-301-SA6-SB-4.0-5.0 SL-319-SA6-SB-4.0-5.0)	MERCURY	35	20.00	No Qual, OK by Difference



# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 8082

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12858AY241027A (EB-SA6-SB-100511)	AROCLOR 1016 AROCLOR 1260	- -	- -	51.00-128.00 56.00-135.00	47 (30.00) 54 (30.00)	AROCLOR 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262, 1268	J (all detects) UJ (all non-detects)

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P27926BQ220650A (DUP16 -SA6-QC-100511 SL -301-SA6-SB-4.0-5.0 SL -319-SA6-SB-4.0-5.0)	ANTIMONY	124	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P5LELCSQ260717 (DUP16 -SA6-QC-100511 SL -301-SA6-SB-4.0-5.0 SL -319-SA6-SB-4.0-5.0)	2,4,5-TRICHLOROPHENOL	109	-	76.00-107.00	-	2,4,5-TRICHLOROPHENOL	J(all detects)

# Surrogate Outlier Report

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1625C

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-100511	N-Nitrosodimethylamine-d6	336	50.00-150.00	All Target Analytes	J (all detects)
	N-Nitrosodimethylamine-d6	323	50.00-150.00		

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-301-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)
SL-319-SA6-SB-4.0-5.0RLLCS	DECACHLOROBIPHENYL	128	45.00-120.00	All Target Analytes	J(all detects)
SL-319-SA6-SB-4.0-5.0RLMS	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)

Method: 8270C SIM

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-301-SA6-SB-4.0-5.0	Terphenyl-d14	150	45.00-135.00	No Affected Compounds	J(all detects)

# Field Duplicate RPD Report

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
MOISTURE	8.3	8.5	2		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
FLUORIDE	1.5	1.7	12	50.00	No Qualifiers Applied
Nitrate-NO3	1.3	1.8	32	50.00	

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
ALUMINUM	24000	23100	4	50.00	No Qualifiers Applied
BORON	2.93	1.79	48	50.00	
CALCIUM	2320	2370	2	50.00	
IRON	25700	24800	4	50.00	
LITHIUM	27.8	28.3	2	50.00	
MAGNESIUM	5860	5580	5	50.00	
MANGANESE	353	363	3	50.00	
PHOSPHORUS	184	179	3	50.00	
POTASSIUM	2080	2180	5	50.00	
SODIUM	130	125	4	50.00	
STRONTIUM	21.7	22.8	5	50.00	
TIN	2.95	3.06	4	50.00	
TITANIUM	1390	1450	4	50.00	
Zirconium	3.86	4.45	14	50.00	

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
ANTIMONY	0.269	0.180	40	50.00	No Qualifiers Applied
ARSENIC	7.21	5.98	19	50.00	
BARIUM	147	112	27	50.00	
BERYLLIUM	1.05	0.749	33	50.00	
CADMIUM	0.0910	0.0778	16	50.00	
CHROMIUM	29.4	23.0	24	50.00	
COBALT	9.38	8.31	12	50.00	
COPPER	11.5	9.33	21	50.00	
LEAD	8.03	6.38	23	50.00	
MOLYBDENUM	1.04	0.798	26	50.00	
NICKEL	19.7	14.8	28	50.00	
SELENIUM	0.0908	0.0686	28	50.00	
SILVER	0.129	0.117	10	50.00	
THALLIUM	0.380	0.312	20	50.00	
VANADIUM	59.1	45.9	25	50.00	
ZINC	75.5	67.8	11	50.00	

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

1/6/2012 1:00:00 PM

ADR version 1.4.0.111

Page 1 of 2

# Field Duplicate RPD Report

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
HEXAVALENT CHROMIUM	0.22	0.49	76	50.00	J(all detects)

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
MERCURY	0.0152	0.0102	39	50.00	No Qualifiers Applied

Method: 8015M

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
EFH (C21-C30)	1.9	2.9	42	50.00	No Qualifiers Applied
EFH (C30-C40)	5.9	11	60	50.00	J(all detects)

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
AROCLOR 1254	0.55	1.9 U	200	50.00	J(all detects)
AROCLOR 1260	1.0	1.9 U	200	50.00	UJ(all non-detects)

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
BENZO(B)FLUORANTHENE	1.1	1.8 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(G,H,I)PERYLENE	0.74	1.8 U	200	50.00	
BENZO(K)FLUORANTHENE	0.92	1.8 U	200	50.00	
CHRYSENE	1.4	1.8 U	200	50.00	
FLUORANTHENE	2.6	1.8 U	200	50.00	
PHENANTHRENE	0.96	1.8 U	200	50.00	
PYRENE	1.9	1.8 U	200	50.00	

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-319-SA6-SB-4.0-5.0	DUP16-SA6-QC-100511			
PH	6.47	6.38	1	50.00	No Qualifiers Applied

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

1/6/2012 1:00:00 PM

ADR version 1.4.0.111

Page 2 of 2

# Reporting Limit Outliers

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100511	STRONTIUM	J	0.00030	0.0050	PQL	mg/L	J (all detects)

Method: 7470A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100511	MERCURY	J	0.000056	0.00020	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100511	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.11	0.95	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.26	0.95	PQL	ug/L	
	Di-n-butylphthalate	J	0.70	0.95	PQL	ug/L	
	NAPHTHALENE	J	0.034	0.048	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-319-SA6-SB-4.0-5.0	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA6-QC-100511	BORON	J	1.79	5.31	PQL	mg/Kg	J (all detects)
	TIN	J	3.06	10.6	PQL	mg/Kg	
	Zirconium	J	4.45	5.31	PQL	mg/Kg	
SL-301-SA6-SB-4.0-5.0	BORON	J	1.55	5.25	PQL	mg/Kg	J (all detects)
	TIN	J	2.85	10.5	PQL	mg/Kg	
	Zirconium	J	3.93	5.25	PQL	mg/Kg	
SL-319-SA6-SB-4.0-5.0	BORON	J	2.93	5.35	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.7	PQL	mg/Kg	
	Zirconium	J	3.86	5.35	PQL	mg/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA6-QC-100511	ANTIMONY	J	0.180	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0778	0.107	PQL	mg/Kg	
	SELENIUM	J	0.0686	0.429	PQL	mg/Kg	
SL-301-SA6-SB-4.0-5.0	ANTIMONY	J	0.173	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0709	0.107	PQL	mg/Kg	
	SELENIUM	J	0.106	0.429	PQL	mg/Kg	
	SILVER	J	0.0739	0.107	PQL	mg/Kg	
SL-319-SA6-SB-4.0-5.0	CADMIUM	J	0.0910	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0908	0.428	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA6-QC-100511	HEXAVALENT CHROMIUM	J	0.49	1.1	PQL	mg/Kg	J (all detects)
SL-301-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.0	PQL	mg/Kg	J (all detects)
SL-319-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.22	1.0	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP16-SA6-QC-100511	MERCURY	J	0.0102	0.106	PQL	mg/Kg	J (all detects)
SL-301-SA6-SB-4.0-5.0	MERCURY	J	0.0198	0.106	PQL	mg/Kg	J (all detects)
SL-319-SA6-SB-4.0-5.0	MERCURY	J	0.0152	0.104	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-319-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.55	1.9	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	1.0	1.9	PQL	ug/Kg	

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-319-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	28	360	PQL	ug/Kg	J (all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE262

Laboratory: LL

EDD Filename: DE262\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-301-SA6-SB-4.0-5.0	BENZO(K)FLUORANTHENE	J	1.7	1.8	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.69	1.8	PQL	ug/Kg	
	FLUORANTHENE	J	0.88	1.8	PQL	ug/Kg	
SL-319-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.1	1.8	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.74	1.8	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	0.92	1.8	PQL	ug/Kg	
	CHRYSENE	J	1.4	1.8	PQL	ug/Kg	
	PHENANTHRENE	J	0.96	1.8	PQL	ug/Kg	

LDC #: 26923A4

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: DE262

ADR

Laboratory: Lancaster Laboratories

Date: 6/6/12

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	Al, Ba, Ca, Fe, Mg, Mn, Ti, Zn 74X
VII.	Duplicate Sample Analysis	NA	Sb, Hg, Zn 45X
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Ba, Co, Cu, Pb, Ni, Zn, J/UJ
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	ZB=1

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

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

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

1	SL-319-SA6-SB-4.0-5.0	11		21		31	
2	SL-301-SA6-SB-4.0-5.0	12		22		32	
3	DUP16-SA6-QC-100511	13		23		33	
4	EB-SA6-SB-100511	14		24		34	
5	SL-319-SA6-SB-4.0-5.0MS	15		25		35	
6	SL-319-SA6-SB-4.0-5.0MSD	16		26		36	
7	SL-319-SA6-SB-4.0-5.0DUP	17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

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

\_\_\_\_\_

\_\_\_\_\_



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

Soil preparation factor applied: 100X  
Associated Samples: All AQ 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	4															
Hg			0.063	0.315	0.056															

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													
Sb			0.30	0.30	0.27	0.17	0.18													
Hg			0.042	0.035	0.015	0.020	0.010													

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

VALIDATION FINDINGS WORKSHEET  
Field Blanks

LDC #: 26923A4

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

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

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

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

Sampling date: 10/05/11 Soil factor applied 100X, Hg:167X

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

Analyte		Sample Identification				
Blank ID		1	2	3		
Hg	4	Action Level				
	0.056	0.04676	0.015	0.020	0.010	
	Sr	0.30	0.15			

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



QUALITY ASSURANCE SUMMARY  
FORM 5A (MS/MSD)  
MATRIX SPIKE/MATRIX SPIKE DUPLICATE  
SDG No.: DE262  
Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6430028BKG Matrix Spike Lab Sample ID: 6430029MS Matrix Spike Duplicate Lab Sample ID: 6430030MSD  
% Solids for Sample: 91.7  
Batch Id(s): P29208B, P27926B, P27908D, P27911B

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike		MSD Spike		Units		MS		MSD		Control Limit	
		Result	C	Result	C	Result	C	Added	Added	Added	Added	MG/KG	MG/KG	%R	Q	%R	Q	%R	Q
Aluminum		23997.5577		28040.6932		27143.3074		213.8260	215.9431	215.9431	215.9431	MG/KG	MG/KG	1891	44N	1457	47N	75-125	20P
Antimony	121	0.2690		0.8248		0.8791		1.2705	1.2957	1.2957	1.2957	MG/KG	MG/KG	89		123		75-125	20MS
Arsenic	75	7.2145		9.1074		9.8600		2.1175	2.1594	2.1594	2.1594	MG/KG	MG/KG	39		103		75-125	20MS
Barium	137	146.7488		150.8931		157.8544		10.5875	10.7972	10.7972	10.7972	MG/KG	MG/KG	97		109		75-125	20MS
Beryllium	9	1.0514		1.8761		1.9951		0.8470	0.8638	0.8638	0.8638	MG/KG	MG/KG	98		95		84-115	20P
Boron		2.9326	B	214.2987		209.0858		215.9431	215.9431	215.9431	215.9431	MG/KG	MG/KG	121		128N		75-125	20MS
Cadmium	111	0.0910	B	1.3717		1.4742		1.0588	1.0797	1.0797	1.0797	MG/KG	MG/KG	135		135		75-125	20P
Calcium		2316.4047		2900.4168		2900.5204		431.8862	431.8862	431.8862	431.8862	MG/KG	MG/KG	92		103		75-125	20MS
Chromium	52	29.3797		39.1102		40.5109		10.5875	10.7972	10.7972	10.7972	MG/KG	MG/KG	122		127N		75-125	20MS
Cobalt	59	9.3827		73.7102		77.8259		52.9375	53.9858	53.9858	53.9858	MG/KG	MG/KG	118		126N		75-125	20MS
Copper	63	11.5060		23.9913		25.0926		10.5875	10.7972	10.7972	10.7972	MG/KG	MG/KG	964		-521		75-125	20P
Iron		25723.3175		26754.2669		25160.2827		106.9130	107.9715	107.9715	107.9715	MG/KG	MG/KG	106		125		75-125	20MS
Lead	208	8.0270		11.3922		12.0820		3.1763	3.2391	3.2391	3.2391	MG/KG	MG/KG	103		102		82-114	20P
Lithium		27.8434		139.1095		138.2079		107.9715	107.9715	107.9715	107.9715	MG/KG	MG/KG	262		83		75-125	20P
Magnesium		5855.5071		6416.2967		6034.2551		213.8260	215.9431	215.9431	215.9431	MG/KG	MG/KG	46		50		65-135	20CV
Manganese		353.2298		377.9997		380.1851		53.9858	53.9858	53.9858	53.9858	MG/KG	MG/KG	93		91		75-125	20MS
Mercury		0.0152	B	0.1798		0.1757		0.1762	0.1762	0.1762	0.1762	MG/KG	MG/KG	124		125		75-125	20MS
Molybdenum	98	1.0356		14.1216		14.5567		10.5875	10.7972	10.7972	10.7972	MG/KG	MG/KG	107		123		75-125	20MS
Nickel	60	19.6656		31.0002		32.9961		10.5875	10.7972	10.7972	10.7972	MG/KG	MG/KG	102		93		75-125	20P
Phosphorus		183.7503		294.3196		283.8734		107.9715	107.9715	107.9715	107.9715	MG/KG	MG/KG	126N		130N		75-125	20P
Potassium		2083.5514		3441.9038		3488.5043		1079.7154	1079.7154	1079.7154	1079.7154	MG/KG	MG/KG	102		113		75-125	20MS
Selenium	78	0.0908	B	2.2530		2.5244		2.1175	2.1594	2.1594	2.1594	MG/KG	MG/KG	124		129N		75-125	20MS
Silver	107	0.1293		13.2068		14.0298		10.5875	10.7972	10.7972	10.7972	MG/KG	MG/KG	96		95		75-125	20P
Sodium		130.0458		1163.4387		1154.3475		1079.7154	1079.7154	1079.7154	1079.7154	MG/KG	MG/KG	97		95		75-115	20P
Strontium		21.7493		126.2673		124.3767		107.9715	107.9715	107.9715	107.9715	MG/KG	MG/KG	117		131N		75-125	20MS
Thallium	203	0.3795		0.8745		0.9435		0.4235	0.4319	0.4319	0.4319	MG/KG	MG/KG	93		92		80-110	20P
Tin		2.9455	B	405.7624		398.5165		431.8862	431.8862	431.8862	431.8862	MG/KG	MG/KG	251		271		75-125	20P
Titanium		1393.0646		1663.9613		1686.1991		107.9715	107.9715	107.9715	107.9715	MG/KG	MG/KG	76		107		75-125	20MS
Vanadium	51	59.0801		67.1671		70.5918		10.5875	10.7972	10.7972	10.7972	MG/KG	MG/KG	60		92		81-110	20MS
Zinc	66	75.4806		81.8626		85.3623		10.5875	10.7972	10.7972	10.7972	MG/KG	MG/KG	99		98		75-125	20P
Zirconium		3.8638	B	110.3825		109.6913		107.9715	107.9715	107.9715	107.9715	MG/KG	MG/KG						

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

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

# **SAMPLE DELIVERY GROUP**

**DE263**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	TB-100611	6431143	TB	3520C	1625C	III
06-Oct-2011	TB-100611	6431144	TB	3546	1625C	III
06-Oct-2011	TB-100611	6431145	TB	5030B	8015M	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3060A	7199	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3550B	8081A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3550B	8082	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3550B	8151A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3550B	8270C	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	3550B	8270C SIM	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	METHOD	300.0	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	METHOD	314.0	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431133	N	METHOD	7471A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220308	DUP	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220733	DUP	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220817	DUP	METHOD	7471A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220848A	DUP	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220848B	DUP	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220848C	DUP	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D220848D	DUP	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5DUP	P431133D221202	DUP	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220316	MSD	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220741	MSD	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220819	MSD	METHOD	7471A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220854A	MSD	3050B	6020	III

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

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220854B	MSD	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220854C	MSD	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M220854D	MSD	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M221211	MSD	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M241711A	MSD	3550B	8151A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M241929A	MSD	3550B	8081A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MSD	P431133M260309	MSD	3550B	8270C	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220312	MS	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220737	MS	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220818	MS	METHOD	7471A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220851A	MS	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220851B	MS	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220851C	MS	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R220851D	MS	3050B	6020	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R221206	MS	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R241643A	MS	3550B	8151A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R241915A	MS	3550B	8081A	III
06-Oct-2011	SL-229-SA6-SS-0.0-0.5MS	P431133R260244	MS	3550B	8270C	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3050B	6010B	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3050B	6020	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3060A	7199	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3550B	8082	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3550B	8270C	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	3550B	8270C SIM	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	METHOD	300.0	III
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	METHOD	314.0	III

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

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431138	N	METHOD	7471A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3050B	6010B	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3050B	6020	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3060A	7199	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3546	1625C	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8015B	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8015M	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8081A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8082	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8151A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8270C	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	3550B	8270C SIM	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	8330	8330A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	300.0	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	314.0	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	7471A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	8015B	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	8015M	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	8315A	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431134	N	METHOD	9012B	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5MSD	P431134M262100	MSD	3550B	8270C SIM	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5MSD	P431134M322231A	MSD	METHOD	8015B	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5MS	P431134R262028	MS	3550B	8270C SIM	III
06-Oct-2011	SL-230-SA6-SS-0.0-0.5MS	P431134R322215A	MS	METHOD	8015B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3050B	6010B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3050B	6020	III

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

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate



## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3060A	7199	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3546	1625C	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3550B	8015B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3550B	8015M	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3550B	8082	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3550B	8270C	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	3550B	8270C SIM	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	5035	8015M	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	8330	8330A	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	300.0	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	314.0	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	7471A	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	8015B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	8015M	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	8315A	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0	6431141	N	METHOD	9012B	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0DUP	P431141D270232A	DUP	METHOD	314.0	III
06-Oct-2011	SL-268-SA6-SB-4.0-5.0MS	P431141R270255A	MS	METHOD	314.0	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3050B	6010B	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3050B	6020	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3060A	7199	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3546	1625C	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3550B	8015B	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3550B	8015M	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3550B	8082	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3550B	8270C	III

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

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	3550B	8270C SIM	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	5035	8015M	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	8330	8330A	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	300.0	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	314.0	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	7471A	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	8015B	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	8015M	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	8315A	III
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431139	N	METHOD	9012B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3050B	6010B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3050B	6020	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3060A	7199	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3546	1625C	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3550B	8015B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3550B	8015M	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3550B	8082	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3550B	8270C	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	3550B	8270C SIM	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	5035	8015M	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	8330	8330A	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	300.0	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	314.0	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	7471A	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	8015B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	8015M	III

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

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	8315A	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431140	N	METHOD	9012B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5DUP	P431140D272022A	DUP	METHOD	9012B	III
06-Oct-2011	SL-254-SA6-SB-2.5-3.5MS	P431140R272023A	MS	METHOD	9012B	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3050B	6010B	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3050B	6020	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3060A	7199	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3550B	8081A	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3550B	8082	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3550B	8151A	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3550B	8270C	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	3550B	8270C SIM	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	METHOD	300.0	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	METHOD	314.0	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431135	N	METHOD	7471A	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5MSD	P431135M241429A	MSD	3550B	8082	III
06-Oct-2011	SL-234-SA6-SS-0.0-0.5MS	P431135R241411A	MS	3550B	8082	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3005A	6010B	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3020A	6020	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8015B	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8015M	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8081A	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8082	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8270C	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3510C	8270C SIM	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	3520C	1625C	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	5030B	8015M	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	5030B	8260B	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	5030B	8260B SIM	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	8330	8330A	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	Gen Prep	300.0	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	Gen Prep	314.0	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	Gen Prep	7199	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	Gen Prep	8015B	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	Gen Prep	8015M	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	METHOD	7470A	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	METHOD	8151A	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	METHOD	8315A	III
06-Oct-2011	EB-SA6-SB-100611	6431146	EB	METHOD	9012B	III
06-Oct-2011	EB-SA6-SB-100611MSD	P431146M320220A	MSD	Gen Prep	8015B	III
06-Oct-2011	EB-SA6-SB-100611MS	P431146R320204A	MS	Gen Prep	8015B	III
06-Oct-2011	EB-SA6-SB-100611	6431142	EB	3520C	1625C	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3050B	6010B	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3050B	6020	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3060A	7199	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3550B	8081A	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3550B	8082	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3550B	8151A	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3550B	8270C	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	3550B	8270C SIM	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	METHOD	300.0	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	METHOD	314.0	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431136	N	METHOD	7471A	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5DUP	P431136D270644A	DUP	METHOD	300.0	III
06-Oct-2011	SL-232-SA6-SS-0.0-0.5MS	P431136R270657A	MS	METHOD	300.0	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3050B	6010B	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3050B	6020	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3060A	7199	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3550B	8082	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3550B	8270C	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	3550B	8270C SIM	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	METHOD	300.0	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	METHOD	314.0	III
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431137	N	METHOD	7471A	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 300.0

Matrix: SO

Sample ID: SL-229-SA6-SB-2.0-3.0

Collected: 10/6/2011 9:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.6		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.3		0.83	MDL	1.0	PQL	mg/Kg	J	Q

Sample ID: SL-230-SA6-SS-0.0-0.5

Collected: 10/6/2011 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.0	PQL	mg/Kg	UJ	Q

Sample ID: SL-232-SA6-SB-2.5-3.5

Collected: 10/6/2011 3:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.86	U	0.86	MDL	1.1	PQL	mg/Kg	UJ	Q

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.2		0.89	MDL	1.1	PQL	mg/Kg	J	Q

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: RES

Dilution: 1

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

Sample ID: SL-254-SA6-SB-2.5-3.5

Collected: 10/6/2011 12:10:00

Analysis Type: RES

Dilution: 1

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

\* denotes a non-reportable result

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

1/23/2012 3:05:16 PM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 300.0

**Matrix:** SO

Sample ID: SL-268-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.84	MDL	1.0	PQL	mg/Kg	J	Q
Nitrate-NO3	0.92	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

**Method Category:** METALS

**Method:** 6010B

**Matrix:** AQ

Sample ID: EB-SA6-SB-100611

Collected: 10/6/2011 2:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	0.0068	J	0.0047	MDL	0.100	PQL	mg/L	U	B

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

Sample ID: SL-229-SA6-SB-2.0-3.0

Collected: 10/6/2011 9:00:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	17700		2.61	MDL	20.0	PQL	mg/Kg	J	E

Sample ID: SL-229-SA6-SB-2.0-3.0

Collected: 10/6/2011 9:00:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13400		6.28	MDL	20.8	PQL	mg/Kg	J	E

Sample ID: SL-229-SA6-SB-2.0-3.0

Collected: 10/6/2011 9:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	194		0.0367	MDL	0.509	PQL	mg/Kg	J	E
PHOSPHORUS	347		0.356	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	2710		11.5	MDL	50.9	PQL	mg/Kg	J	Q
SODIUM	85.6	J	6.06	MDL	102	PQL	mg/Kg	J	Z
STRONTIUM	17.5		0.0255	MDL	0.509	PQL	mg/Kg	J	E
TIN	2.38	J	0.326	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.92	J	0.468	MDL	5.09	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	17500		2.75	MDL	21.1	PQL	mg/Kg	J	E

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	7110		6.26	MDL	20.7	PQL	mg/Kg	J	E

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	246		0.0373	MDL	0.518	PQL	mg/Kg	J	E
PHOSPHORUS	304		0.362	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	1920		11.7	MDL	51.8	PQL	mg/Kg	J	Q
SODIUM	98.9	J	6.16	MDL	104	PQL	mg/Kg	J	Z
STRONTIUM	13.3		0.0259	MDL	0.518	PQL	mg/Kg	J	E
TIN	2.13	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	1.98	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18500		2.67	MDL	20.4	PQL	mg/Kg	J	E

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	10000		6.18	MDL	20.4	PQL	mg/Kg	J	E

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	161		0.0364	MDL	0.506	PQL	mg/Kg	J	E
PHOSPHORUS	325		0.354	MDL	10.1	PQL	mg/Kg	J	Q
POTASSIUM	2640		11.4	MDL	50.6	PQL	mg/Kg	J	Q
SODIUM	75.5	J	6.02	MDL	101	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

**Sample ID:** SL-230-SA6-SB-4.0-5.0

**Collected:** 10/6/2011 10:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
STRONTIUM	10.0		0.0253	MDL	0.506	PQL	mg/Kg	J	E
TIN	2.29	J	0.324	MDL	10.1	PQL	mg/Kg	U	B
Zirconium	1.42	J	0.466	MDL	5.06	PQL	mg/Kg	J	Z

**Sample ID:** SL-230-SA6-SS-0.0-0.5

**Collected:** 10/6/2011 10:25:00

**Analysis Type:** REA2

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	14800		2.76	MDL	21.2	PQL	mg/Kg	J	E

**Sample ID:** SL-230-SA6-SS-0.0-0.5

**Collected:** 10/6/2011 10:25:00

**Analysis Type:** REA3

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	10300		6.34	MDL	20.9	PQL	mg/Kg	J	E

**Sample ID:** SL-230-SA6-SS-0.0-0.5

**Collected:** 10/6/2011 10:25:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	212		0.0373	MDL	0.519	PQL	mg/Kg	J	E
PHOSPHORUS	284		0.363	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	2250		11.7	MDL	51.9	PQL	mg/Kg	J	Q
SODIUM	88.4	J	6.17	MDL	104	PQL	mg/Kg	J	Z
STRONTIUM	14.9		0.0259	MDL	0.519	PQL	mg/Kg	J	E
TIN	2.88	J	0.332	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.01	J	0.477	MDL	5.19	PQL	mg/Kg	J	Z

**Sample ID:** SL-232-SA6-SB-2.5-3.5

**Collected:** 10/6/2011 3:30:00

**Analysis Type:** REA2

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	26000		2.78	MDL	21.3	PQL	mg/Kg	J	E

**Sample ID:** SL-232-SA6-SB-2.5-3.5

**Collected:** 10/6/2011 3:30:00

**Analysis Type:** REA3

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	26100		6.38	MDL	21.1	PQL	mg/Kg	J	E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

Sample ID: SL-232-SA6-SB-2.5-3.5

Collected: 10/6/2011 3:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	451		0.0380	MDL	0.528	PQL	mg/Kg	J	E
PHOSPHORUS	231		0.369	MDL	10.6	PQL	mg/Kg	J	Q
POTASSIUM	1900		11.9	MDL	52.8	PQL	mg/Kg	J	Q
SODIUM	95.5	J	6.28	MDL	106	PQL	mg/Kg	J	Z
STRONTIUM	25.8		0.0264	MDL	0.528	PQL	mg/Kg	J	E
TIN	2.67	J	0.338	MDL	10.6	PQL	mg/Kg	U	B
Zirconium	3.19	J	0.485	MDL	5.28	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22400		2.96	MDL	22.7	PQL	mg/Kg	J	E

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	19600		6.65	MDL	22.0	PQL	mg/Kg	J	E

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	317		0.0392	MDL	0.544	PQL	mg/Kg	J	E
PHOSPHORUS	375		0.381	MDL	10.9	PQL	mg/Kg	J	Q
POTASSIUM	4000		12.3	MDL	54.4	PQL	mg/Kg	J	Q
SODIUM	70.0	J	6.48	MDL	109	PQL	mg/Kg	J	Z
STRONTIUM	23.0		0.0272	MDL	0.544	PQL	mg/Kg	J	E
TIN	2.58	J	0.348	MDL	10.9	PQL	mg/Kg	U	B
Zirconium	1.52	J	0.501	MDL	5.44	PQL	mg/Kg	J	Z

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	22500		2.85	MDL	21.9	PQL	mg/Kg	J	E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	16600		6.68	MDL	22.1	PQL	mg/Kg	J	E

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	369		0.0401	MDL	0.557	PQL	mg/Kg	J	E
PHOSPHORUS	521		0.390	MDL	11.1	PQL	mg/Kg	J	Q
POTASSIUM	4600		12.6	MDL	55.7	PQL	mg/Kg	J	Q
SODIUM	72.4	J	6.63	MDL	111	PQL	mg/Kg	J	Z
STRONTIUM	24.2		0.0279	MDL	0.557	PQL	mg/Kg	J	E
TIN	2.74	J	0.357	MDL	11.1	PQL	mg/Kg	U	B
Zirconium	2.27	J	0.513	MDL	5.57	PQL	mg/Kg	J	Z

Sample ID: SL-254-SA6-SB-2.5-3.5

Collected: 10/6/2011 12:10:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	24100		2.65	MDL	20.3	PQL	mg/Kg	J	E

Sample ID: SL-254-SA6-SB-2.5-3.5

Collected: 10/6/2011 12:10:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	17100		6.15	MDL	20.3	PQL	mg/Kg	J	E

Sample ID: SL-254-SA6-SB-2.5-3.5

Collected: 10/6/2011 12:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	316		0.0366	MDL	0.508	PQL	mg/Kg	J	E
PHOSPHORUS	563		0.356	MDL	10.2	PQL	mg/Kg	J	Q
POTASSIUM	2820		11.5	MDL	50.8	PQL	mg/Kg	J	Q
SODIUM	89.4	J	6.04	MDL	102	PQL	mg/Kg	J	Z
STRONTIUM	18.2		0.0254	MDL	0.508	PQL	mg/Kg	J	E
TIN	2.48	J	0.325	MDL	10.2	PQL	mg/Kg	U	B
Zirconium	1.30	J	0.467	MDL	5.08	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

Sample ID: SL-268-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:30:00

Analysis Type: REA2

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	21700		2.68	MDL	20.5	PQL	mg/Kg	J	E

Sample ID: SL-268-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:30:00

Analysis Type: REA3

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	16900		6.14	MDL	20.3	PQL	mg/Kg	J	E

Sample ID: SL-268-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MANGANESE	333		0.0373	MDL	0.518	PQL	mg/Kg	J	E
PHOSPHORUS	287		0.362	MDL	10.4	PQL	mg/Kg	J	Q
POTASSIUM	2710		11.7	MDL	51.8	PQL	mg/Kg	J	Q
SODIUM	74.2	J	6.16	MDL	104	PQL	mg/Kg	J	Z
STRONTIUM	17.3		0.0259	MDL	0.518	PQL	mg/Kg	J	E
TIN	2.46	J	0.331	MDL	10.4	PQL	mg/Kg	U	B
Zirconium	2.07	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-229-SA6-SB-2.0-3.0

Collected: 10/6/2011 9:00:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.219	J	0.0585	MDL	0.403	PQL	mg/Kg	J	Z, Q

Sample ID: SL-229-SA6-SB-2.0-3.0

Collected: 10/6/2011 9:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.631		0.0504	MDL	0.101	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-229-SA6-SB-2.0-3.0

Collected: 10/6/2011 9:00:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.107	MDL	0.403	PQL	mg/Kg	J	E, E, A

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-229-SA6-SB-2.0-3.0

Collected: 10/6/2011 9:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.0746	MDL	0.202	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.64		0.0807	MDL	0.403	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.606		0.0161	MDL	0.101	PQL	mg/Kg	J	Q, E
CADMIUM	0.214		0.0444	MDL	0.101	PQL	mg/Kg	J	Q, E
CHROMIUM	21.7		0.121	MDL	0.403	PQL	mg/Kg	J	Q, E, E, A
COBALT	6.37		0.0202	MDL	0.101	PQL	mg/Kg	J	Q, E
COPPER	14.3		0.0807	MDL	0.403	PQL	mg/Kg	J	Q, E, E
LEAD	11.7		0.0103	MDL	0.202	PQL	mg/Kg	J	Q, E, E
NICKEL	16.4		0.101	MDL	0.403	PQL	mg/Kg	J	Q, E, E
SILVER	0.202		0.0143	MDL	0.101	PQL	mg/Kg	J	Q, E
THALLIUM	0.279		0.0302	MDL	0.101	PQL	mg/Kg	J	Q, E
VANADIUM	40.0		0.0222	MDL	0.101	PQL	mg/Kg	J	Q, E, E, A
ZINC	79.0		0.565	MDL	3.02	PQL	mg/Kg	J	E, E

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0739	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z, Q

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.308		0.0518	MDL	0.104	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	50.6		0.110	MDL	0.414	PQL	mg/Kg	J	E, E, A

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.160	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q, E
ARSENIC	3.63		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.377		0.0166	MDL	0.104	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.127		0.0455	MDL	0.104	PQL	mg/Kg	J	Q, E
CHROMIUM	13.2		0.124	MDL	0.414	PQL	mg/Kg	J	Q, E, E, A
COBALT	4.15		0.0207	MDL	0.104	PQL	mg/Kg	J	Q, E
COPPER	6.13		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E, E
LEAD	8.58		0.0106	MDL	0.207	PQL	mg/Kg	J	Q, E, E
NICKEL	8.59		0.104	MDL	0.414	PQL	mg/Kg	J	Q, E, E
SILVER	0.0801	J	0.0147	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.155		0.0311	MDL	0.104	PQL	mg/Kg	J	Q, E
VANADIUM	23.4		0.0228	MDL	0.104	PQL	mg/Kg	J	Q, E, E, A
ZINC	51.6		0.580	MDL	3.11	PQL	mg/Kg	J	E, E

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.118	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z, Q

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.528		0.0511	MDL	0.102	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	52.8		0.108	MDL	0.409	PQL	mg/Kg	J	E, E, A

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0757	MDL	0.204	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.58		0.0818	MDL	0.409	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.440		0.0164	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.126		0.0450	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	15.1		0.123	MDL	0.409	PQL	mg/Kg	J	Q, E, E, A
COBALT	4.73		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	10.2		0.0818	MDL	0.409	PQL	mg/Kg	J	Q, E, E
LEAD	5.79		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E, E
NICKEL	12.6		0.102	MDL	0.409	PQL	mg/Kg	J	Q, E, E
SILVER	0.491		0.0145	MDL	0.102	PQL	mg/Kg	J	Q, E
THALLIUM	0.215		0.0307	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	29.1		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, E, E, A
ZINC	61.2		0.572	MDL	3.07	PQL	mg/Kg	J	E, E

Sample ID: SL-230-SA6-SS-0.0-0.5

Collected: 10/6/2011 10:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.221	J	0.0614	MDL	0.423	PQL	mg/Kg	J	Z, Q

Sample ID: SL-230-SA6-SS-0.0-0.5

Collected: 10/6/2011 10:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.923		0.0529	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-230-SA6-SS-0.0-0.5

Collected: 10/6/2011 10:25:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	88.8		0.112	MDL	0.423	PQL	mg/Kg	J	E, E, A

Sample ID: SL-230-SA6-SS-0.0-0.5

Collected: 10/6/2011 10:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.211	J	0.0783	MDL	0.212	PQL	mg/Kg	J	Z, Q, E
ARSENIC	5.85		0.0846	MDL	0.423	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.563		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.758		0.0465	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	23.7		0.127	MDL	0.423	PQL	mg/Kg	J	Q, E, E, A
COBALT	6.74		0.0212	MDL	0.106	PQL	mg/Kg	J	Q, E
COPPER	18.4		0.0846	MDL	0.423	PQL	mg/Kg	J	Q, E, E
LEAD	19.4		0.0108	MDL	0.212	PQL	mg/Kg	J	Q, E, E
NICKEL	15.9		0.106	MDL	0.423	PQL	mg/Kg	J	Q, E, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

**Sample ID:** SL-230-SA6-SS-0.0-0.5

**Collected:** 10/6/2011 10:25:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	9.47		0.0150	MDL	0.106	PQL	mg/Kg	J	Q, E
THALLIUM	0.224		0.0317	MDL	0.106	PQL	mg/Kg	J	Q, E
VANADIUM	31.4		0.0233	MDL	0.106	PQL	mg/Kg	J	Q, E, E, A
ZINC	104		0.592	MDL	3.17	PQL	mg/Kg	J	E, E

**Sample ID:** SL-232-SA6-SB-2.5-3.5

**Collected:** 10/6/2011 3:30:00

**Analysis Type:** REA

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.226	J	0.0618	MDL	0.426	PQL	mg/Kg	J	Z, Q

**Sample ID:** SL-232-SA6-SB-2.5-3.5

**Collected:** 10/6/2011 3:30:00

**Analysis Type:** REA2

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.33		0.0533	MDL	0.107	PQL	mg/Kg	J	Q, E, E

**Sample ID:** SL-232-SA6-SB-2.5-3.5

**Collected:** 10/6/2011 3:30:00

**Analysis Type:** REA3

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	117		0.113	MDL	0.426	PQL	mg/Kg	J	E, E, A

**Sample ID:** SL-232-SA6-SB-2.5-3.5

**Collected:** 10/6/2011 3:30:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.220		0.0789	MDL	0.213	PQL	mg/Kg	J	Q, E
ARSENIC	10.6		0.0853	MDL	0.426	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.16		0.0171	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0469	U	0.0469	MDL	0.107	PQL	mg/Kg	UJ	E
CHROMIUM	31.2		0.128	MDL	0.426	PQL	mg/Kg	J	Q, E, E, A
COBALT	8.10		0.0213	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	14.2		0.0853	MDL	0.426	PQL	mg/Kg	J	Q, E, E
LEAD	8.98		0.0109	MDL	0.213	PQL	mg/Kg	J	Q, E, E
NICKEL	19.5		0.107	MDL	0.426	PQL	mg/Kg	J	Q, E, E
SILVER	0.113		0.0151	MDL	0.107	PQL	mg/Kg	J	Q, E
THALLIUM	0.348		0.0320	MDL	0.107	PQL	mg/Kg	J	Q, E
VANADIUM	59.2		0.0234	MDL	0.107	PQL	mg/Kg	J	Q, E, E, A

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-232-SA6-SB-2.5-3.5

Collected: 10/6/2011 3:30:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ZINC	62.3		0.597	MDL	3.20	PQL	mg/Kg	J	E, E

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.219	J	0.0638	MDL	0.440	PQL	mg/Kg	J	Z, Q

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.00		0.0550	MDL	0.110	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	165		0.117	MDL	0.440	PQL	mg/Kg	J	E, E, A

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.239		0.0814	MDL	0.220	PQL	mg/Kg	J	Q, E
ARSENIC	8.71		0.0880	MDL	0.440	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.988		0.0176	MDL	0.110	PQL	mg/Kg	J	Q, E
CADMIUM	0.257		0.0484	MDL	0.110	PQL	mg/Kg	J	Q, E
CHROMIUM	28.6		0.132	MDL	0.440	PQL	mg/Kg	J	Q, E, E, A
COBALT	10.4		0.0220	MDL	0.110	PQL	mg/Kg	J	Q, E
COPPER	15.1		0.0880	MDL	0.440	PQL	mg/Kg	J	Q, E, E
LEAD	11.7		0.0112	MDL	0.220	PQL	mg/Kg	J	Q, E, E
NICKEL	23.3		0.110	MDL	0.440	PQL	mg/Kg	J	Q, E, E
SILVER	0.0725	J	0.0156	MDL	0.110	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.381		0.0330	MDL	0.110	PQL	mg/Kg	J	Q, E
VANADIUM	56.6		0.0242	MDL	0.110	PQL	mg/Kg	J	Q, E, E, A
ZINC	82.2		0.616	MDL	3.30	PQL	mg/Kg	J	E, E

\* denotes a non-reportable result

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: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.154	J	0.0628	MDL	0.433	PQL	mg/Kg	J	Z, Q

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.951		0.0541	MDL	0.108	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	164		0.115	MDL	0.433	PQL	mg/Kg	J	E, E, A

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.258		0.0801	MDL	0.217	PQL	mg/Kg	J	Q, E
ARSENIC	7.67		0.0866	MDL	0.433	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.855		0.0173	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.338		0.0476	MDL	0.108	PQL	mg/Kg	J	Q, E
CHROMIUM	28.8		0.130	MDL	0.433	PQL	mg/Kg	J	Q, E, E, A
COBALT	9.94		0.0217	MDL	0.108	PQL	mg/Kg	J	Q, E
COPPER	16.4		0.0866	MDL	0.433	PQL	mg/Kg	J	Q, E, E
LEAD	20.3		0.0110	MDL	0.217	PQL	mg/Kg	J	Q, E, E
NICKEL	22.4		0.108	MDL	0.433	PQL	mg/Kg	J	Q, E, E
SILVER	0.154		0.0154	MDL	0.108	PQL	mg/Kg	J	Q, E
THALLIUM	0.364		0.0325	MDL	0.108	PQL	mg/Kg	J	Q, E
VANADIUM	53.8		0.0238	MDL	0.108	PQL	mg/Kg	J	Q, E, E, A
ZINC	101		0.606	MDL	3.25	PQL	mg/Kg	J	E, E

Sample ID: SL-254-SA6-SB-2.5-3.5

Collected: 10/6/2011 12:10:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.319	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z, Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-254-SA6-SB-2.5-3.5

Collected: 10/6/2011 12:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.691		0.0513	MDL	0.103	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-254-SA6-SB-2.5-3.5

Collected: 10/6/2011 12:10:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	108		0.109	MDL	0.410	PQL	mg/Kg	J	E, E, A

Sample ID: SL-254-SA6-SB-2.5-3.5

Collected: 10/6/2011 12:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.129	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.92		0.0821	MDL	0.410	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.789		0.0164	MDL	0.103	PQL	mg/Kg	J	Q, E
CADMIUM	0.140		0.0451	MDL	0.103	PQL	mg/Kg	J	Q, E
CHROMIUM	26.2		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, E, A
COBALT	9.65		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	12.5		0.0821	MDL	0.410	PQL	mg/Kg	J	Q, E, E
LEAD	7.71		0.0105	MDL	0.205	PQL	mg/Kg	J	Q, E, E
NICKEL	17.2		0.103	MDL	0.410	PQL	mg/Kg	J	Q, E, E
SILVER	0.0710	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.369		0.0308	MDL	0.103	PQL	mg/Kg	J	Q, E
VANADIUM	51.7		0.0226	MDL	0.103	PQL	mg/Kg	J	Q, E, E, A
ZINC	78.2		0.575	MDL	3.08	PQL	mg/Kg	J	E, E

Sample ID: SL-268-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:30:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.206	J	0.0589	MDL	0.406	PQL	mg/Kg	J	Z, Q

Sample ID: SL-268-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:30:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.20		0.0508	MDL	0.102	PQL	mg/Kg	J	Q, E, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-268-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:30:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	98.4		0.108	MDL	0.406	PQL	mg/Kg	J	E, E, A

Sample ID: SL-268-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:30:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.154	J	0.0752	MDL	0.203	PQL	mg/Kg	J	Z, Q, E
ARSENIC	7.19		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.714		0.0162	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.118		0.0447	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	22.5		0.122	MDL	0.406	PQL	mg/Kg	J	Q, E, E, A
COBALT	7.62		0.0203	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	10.1		0.0812	MDL	0.406	PQL	mg/Kg	J	Q, E, E
LEAD	6.47		0.0104	MDL	0.203	PQL	mg/Kg	J	Q, E, E
NICKEL	17.9		0.102	MDL	0.406	PQL	mg/Kg	J	Q, E, E
SILVER	0.101	J	0.0144	MDL	0.102	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.299		0.0305	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	45.1		0.0223	MDL	0.102	PQL	mg/Kg	J	Q, E, E, A
ZINC	65.8		0.569	MDL	3.05	PQL	mg/Kg	J	E, E

Method Category: METALS

Method: 7199

Matrix: SO

Sample ID: SL-229-SA6-SB-2.0-3.0

Collected: 10/6/2011 9:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.29	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: RES

Dilution: 1

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

\* denotes a non-reportable result

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: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-230-SA6-SS-0.0-0.5      Collected: 10/6/2011 10:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.52	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-232-SA6-SB-2.5-3.5      Collected: 10/6/2011 3:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.66	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-254-SA6-SB-2.5-3.5      Collected: 10/6/2011 12:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.24	J	0.21	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-268-SA6-SB-4.0-5.0      Collected: 10/6/2011 10:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.45	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

<b>Method Category:</b>	<b>METALS</b>
<b>Method:</b>	<b>7470A</b>
<b>Matrix:</b>	<b>AQ</b>

Sample ID: EB-SA6-SB-100611      Collected: 10/6/2011 2:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.000058	J	0.000026	MDL	0.00020	PQL	mg/L	U	B, B

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

Sample ID: SL-229-SA6-SB-2.0-3.0      Collected: 10/6/2011 9:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0125	J	0.0068	MDL	0.0973	PQL	mg/Kg	U	B, F

\* denotes a non-reportable result

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: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 7471A

**Matrix:** SO

Sample ID: SL-230-SA6-SS-0.0-0.5

Collected: 10/6/2011 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0441	J	0.0072	MDL	0.103	PQL	mg/Kg	U	F

Sample ID: SL-232-SA6-SB-2.5-3.5

Collected: 10/6/2011 3:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0122	J	0.0074	MDL	0.105	PQL	mg/Kg	U	B, F

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0127	J	0.0078	MDL	0.111	PQL	mg/Kg	U	B, F

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0159	J	0.0075	MDL	0.106	PQL	mg/Kg	U	B, F

Sample ID: SL-254-SA6-SB-2.5-3.5

Collected: 10/6/2011 12:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0137	J	0.0071	MDL	0.100	PQL	mg/Kg	U	B, F

Sample ID: SL-268-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0675	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

**Method Category:** SVOA

**Method:** 1625C

**Matrix:** AQ

Sample ID: EB-SA6-SB-100611

Collected: 10/6/2011 2:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.05		0.476	MDL	0.952	PQL	ng/L	J	S

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 8015M

**Matrix:** SO

Sample ID: SL-268-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:30:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.61	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

**Method Category:** SVOA

**Method:** 8081A

**Matrix:** SO

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DELTA-BHC	0.12	J	0.038	MDL	0.18	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
4,4'-DDE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
4,4'-DDT	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ALDRIN	0.075	U	0.075	MDL	0.19	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	UJ	S
BETA-BHC	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
Chlordane	0.91	U	0.91	MDL	3.9	PQL	ug/Kg	UJ	S
DELTA-BHC	0.041	U	0.041	MDL	0.19	PQL	ug/Kg	UJ	S
DIELDRIN	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.050	U	0.050	MDL	0.19	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ENDRIN	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
ENDRIN KETONE	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.039	U	0.039	MDL	0.19	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.39	U	0.39	MDL	1.9	PQL	ug/Kg	UJ	S
MIREX	0.075	U	0.075	MDL	0.39	PQL	ug/Kg	UJ	S
TOXAPHENE	2.5	U	2.5	MDL	7.5	PQL	ug/Kg	UJ	S

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 8081A

Matrix: SO

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
4,4'-DDE	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
4,4'-DDT	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
ALDRIN	0.074	U	0.074	MDL	0.19	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.057	J	0.038	MDL	0.19	PQL	ug/Kg	J	Z, S
BETA-BHC	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
Chlordane	0.90	U	0.90	MDL	3.8	PQL	ug/Kg	UJ	S
DELTA-BHC	0.041	U	0.041	MDL	0.19	PQL	ug/Kg	UJ	S
DIELDRIN	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
ENDOSULFAN I	0.050	U	0.050	MDL	0.19	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
ENDOSULFAN SULFATE	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
ENDRIN	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.096	J	0.074	MDL	0.38	PQL	ug/Kg	J	Z, S
ENDRIN KETONE	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.038	U	0.038	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.068	U	0.068	MDL	0.19	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.038	U	0.038	MDL	0.19	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.38	U	0.38	MDL	1.9	PQL	ug/Kg	UJ	S
MIREX	0.074	U	0.074	MDL	0.38	PQL	ug/Kg	UJ	S
TOXAPHENE	2.5	U	2.5	MDL	7.4	PQL	ug/Kg	UJ	S

Method Category: SVOA

Method: 8082

Matrix: AQ

Sample ID: EB-SA6-SB-100611

Collected: 10/6/2011 2:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E
AROCLOR 1221	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E
AROCLOR 1232	0.20	U	0.20	MDL	0.51	PQL	ug/L	UJ	E
AROCLOR 1242	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E
AROCLOR 1248	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E
AROCLOR 1254	0.10	U	0.10	MDL	0.51	PQL	ug/L	UJ	E

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 8082

**Matrix:** AQ

**Sample ID:** EB-SA6-SB-100611

**Collected:** 10/6/2011 2:00:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	0.15	U	0.15	MDL	0.51	PQL	ug/L	UJ	E
Aroclor 1262	0.20	U	0.20	MDL	0.51	PQL	ug/L	UJ	E
Aroclor 1268	0.16	U	0.16	MDL	0.51	PQL	ug/L	UJ	E

**Method Category:** SVOA

**Method:** 8082

**Matrix:** SO

**Sample ID:** SL-230-SA6-SB-4.0-5.0

**Collected:** 10/6/2011 10:45:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	1.8	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

**Sample ID:** SL-234-SA6-SS-0.0-0.5

**Collected:** 10/6/2011 12:15:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.93	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z

**Sample ID:** SL-254-SA6-SB-2.5-3.5

**Collected:** 10/6/2011 12:10:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.1	J	0.40	MDL	1.8	PQL	ug/Kg	J	Z

**Sample ID:** SL-268-SA6-SB-4.0-5.0

**Collected:** 10/6/2011 10:30:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.51	J	0.34	MDL	1.8	PQL	ug/Kg	J	Z
AROCLOR 1260	0.72	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>8151A</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-229-SA6-SS-0.0-0.5      Collected: 10/6/2011 8:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DALAPON	4.7	U	4.7	MDL	9.6	PQL	ug/Kg	R	Q
DINOSEB	0.85	U	0.85	MDL	2.6	PQL	ug/Kg	UJ	Q

Sample ID: SL-230-SA6-SS-0.0-0.5      Collected: 10/6/2011 10:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.3	J	1.3	MDL	3.8	PQL	ug/Kg	J	Z
DICAMBA	0.57	J	0.43	MDL	1.3	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA6-SS-0.0-0.5      Collected: 10/6/2011 3:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	1.6	J	1.4	MDL	4.1	PQL	ug/Kg	J	Z
DICAMBA	0.50	J	0.45	MDL	1.4	PQL	ug/Kg	J	Z

Sample ID: SL-234-SA6-SS-0.0-0.5      Collected: 10/6/2011 12:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4-D	2.2	J	1.3	MDL	4.0	PQL	ug/Kg	J	Z

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

Sample ID: SL-229-SA6-SS-0.0-0.5      Collected: 10/6/2011 8:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
3,5-Dimethylphenol	36	U	36	MDL	180	PQL	ug/Kg	R	Q
BENZIDINE	1200	U	1200	MDL	3600	PQL	ug/Kg	R	Q

Sample ID: SL-230-SA6-SS-0.0-0.5      Collected: 10/6/2011 10:25:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	20	J	18	MDL	180	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-232-SA6-SB-2.5-3.5 Collected: 10/6/2011 3:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	34	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-234-SA6-SS-0.0-0.5 Collected: 10/6/2011 12:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	38	J	19	MDL	380	PQL	ug/Kg	J	Z

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

Sample ID: EB-SA6-SB-100611 Collected: 10/6/2011 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	0.13	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Diethylphthalate	0.15	J	0.048	MDL	0.95	PQL	ug/L	J	Z
Di-n-butylphthalate	0.30	J	0.048	MDL	0.95	PQL	ug/L	J	Z
NAPHTHALENE	0.033	J	0.029	MDL	0.048	PQL	ug/L	J	Z

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

Sample ID: SL-229-SA6-SB-2.0-3.0 Collected: 10/6/2011 9:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	1.3	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	1.1	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	18	J	6.2	MDL	19	PQL	ug/Kg	U	B
INDENO(1,2,3-CD)PYRENE	0.77	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
PHENANTHRENE	1.0	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-229-SA6-SS-0.0-0.5 Collected: 10/6/2011 8:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	6.7	J	3.6	MDL	8.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	34	J	32	MDL	96	PQL	ug/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.9	J	1.8	MDL	8.9	PQL	ug/Kg	J	Z

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.4	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	9.6	J	6.2	MDL	19	PQL	ug/Kg	U	B
CHRYSENE	0.41	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-230-SA6-SS-0.0-0.5

Collected: 10/6/2011 10:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	3.7	J	1.8	MDL	8.9	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	8.2	J	3.5	MDL	8.9	PQL	ug/Kg	J	Z

Sample ID: SL-232-SA6-SS-0.0-0.5

Collected: 10/6/2011 3:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.7	J	0.76	MDL	1.9	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	39		6.8	MDL	20	PQL	ug/Kg	U	B
CHRYSENE	0.38	J	0.38	MDL	1.9	PQL	ug/Kg	J	Z

Sample ID: SL-234-SA6-SS-0.0-0.5

Collected: 10/6/2011 12:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	0.92	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	0.77	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
CHRYSENE	1.6	J	0.37	MDL	1.9	PQL	ug/Kg	J	Z
FLUORANTHENE	1.8	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
FLUORENE	0.79	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
NAPHTHALENE	0.82	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PHENANTHRENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
PYRENE	1.6	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-254-SA6-SB-2.5-3.5      Collected: 10/6/2011 12:10:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	0.93	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	12	J	6.2	MDL	19	PQL	ug/Kg	U	B
Butylbenzylphthalate	8.2	J	6.2	MDL	19	PQL	ug/Kg	J	Z
CHRYSENE	0.38	J	0.34	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-268-SA6-SB-4.0-5.0      Collected: 10/6/2011 10:30:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	33	J	31	MDL	94	PQL	ug/Kg	U	B
CHRYSENE	2.1	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

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

Sample ID: SL-230-SA6-SS-0.0-0.5      Collected: 10/6/2011 10:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	U	110	MDL	530	PQL	ug/Kg	UJ	Q

\* denotes a non-reportable result

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: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

### Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
F	Equipment Blank Contamination
L	Laboratory Control Precision
L	Laboratory Control Spike Upper Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

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

DE263

# Method Blank Outlier Report

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method: 6010B</b> <b>Matrix: AQ</b>				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28448IB220323	10/14/2011 3:23:00 AM	STRONTIUM	0.00035 mg/L	EB-SA6-SB-100611

<b>Method: 6010B</b> <b>Matrix: SO</b>				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28308AB220247	10/19/2011 2:47:00 AM	CALCIUM MANGANESE PHOSPHORUS STRONTIUM TIN	8.18 mg/Kg 0.0400 mg/Kg 1.24 mg/Kg 0.0440 mg/Kg 1.46 mg/Kg	SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-229-SA6-SB-2.0-3.0(RES)	TIN	2.38 mg/Kg	2.38U mg/Kg
SL-229-SA6-SS-0.0-0.5(RES)	TIN	2.13 mg/Kg	2.13U mg/Kg
SL-230-SA6-SB-4.0-5.0(RES)	TIN	2.29 mg/Kg	2.29U mg/Kg
SL-230-SA6-SS-0.0-0.5(RES)	TIN	2.88 mg/Kg	2.88U mg/Kg
SL-232-SA6-SB-2.5-3.5(RES)	TIN	2.67 mg/Kg	2.67U mg/Kg
SL-232-SA6-SS-0.0-0.5(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-234-SA6-SS-0.0-0.5(RES)	TIN	2.74 mg/Kg	2.74U mg/Kg
SL-254-SA6-SB-2.5-3.5(RES)	TIN	2.48 mg/Kg	2.48U mg/Kg
SL-268-SA6-SB-4.0-5.0(RES)	TIN	2.46 mg/Kg	2.46U mg/Kg

<b>Method: 7470A</b> <b>Matrix: AQ</b>				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28313EB221002	10/11/2011 10:02:00 AM	MERCURY	0.000063 mg/L	EB-SA6-SB-100611

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-100611(RES)	MERCURY	0.000058 mg/L	0.000058U mg/L

# Method Blank Outlier Report

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method:</b> 8270C SIM				
<b>Matrix:</b> SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKLB28B261854	10/14/2011 6:54:00 PM	BIS(2-ETHYLHEXYL)PHTHALATE	13 ug/Kg	SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-229-SA6-SB-2.0-3.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	18 ug/Kg	19U ug/Kg
SL-229-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	34 ug/Kg	96U ug/Kg
SL-230-SA6-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	9.6 ug/Kg	19U ug/Kg
SL-232-SA6-SS-0.0-0.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	39 ug/Kg	39U ug/Kg
SL-254-SA6-SB-2.5-3.5(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	12 ug/Kg	19U ug/Kg
SL-268-SA6-SB-4.0-5.0(RES)	BIS(2-ETHYLHEXYL)PHTHALATE	33 ug/Kg	94U ug/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 8015B**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-230-SA6-SS-0.0-0.5MS SL-230-SA6-SS-0.0-0.5MSD (SL-230-SA6-SS-0.0-0.5)	ETHANOL	42	43	48.00-130.00	-	ETHANOL	J (all detects) UJ (all non-detects)

**Method: 8151A**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SS-0.0-0.5)	2,4-DB	-	-	10.00-201.00	60 (50.00)	2,4-DB	J(all detects)
SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SS-0.0-0.5)	DALAPON	-	0	10.00-125.00	200 (50.00)	DALAPON	J(all detects) R(all non-detects)
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SS-0.0-0.5)	DINOSEB	8	8	10.00-46.00	-	DINOSEB	J(all detects) UJ(all non-detects)

**Method: 6020**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	ARSENIC COBALT	235 158	178 131	75.00-125.00 75.00-125.00	- -	ARSENIC COBALT	J(all detects)
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	ANTIMONY BERYLLIUM CADMIUM CHROMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	- 168 162 258 189 299 243 151 174 257 441	69 - 129 136 134 184 141 - - 161 217	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 25 (20.00) 22 (20.00) 38 (20.00) 26 (20.00) 23 (20.00) 38 (20.00) 22 (20.00) 28 (20.00) 23 (20.00) 28 (20.00)	ANTIMONY BERYLLIUM CADMIUM CHROMIUM COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) UJ(all non-detects)  Zn, No Qual %R, >4x
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	SELENIUM	144	128	75.00-125.00	-	SELENIUM	J(all detects)

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

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	MOLYBDENUM	157	-	75.00-125.00	26 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	BARIUM	416	220	75.00-125.00	25 (20.00)	BARIUM	J(all detects) UJ(all non-detects)  No Qual %R, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	POTASSIUM TITANIUM	135 257	147 268	75.00-125.00 75.00-125.00	- -	POTASSIUM TITANIUM	J(all detects)  Ti, No Qual, >4x
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	MANGANESE	16	66	75.00-125.00	-	MANGANESE	No Qual, >4x
SL-229-SA6-SS-0.0-0.5MS (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	PHOSPHORUS	72	-	75.00-125.00	-	PHOSPHORUS	J(all detects) UJ(all non-detects)

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

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SS-0.0-0.5)	BIS(2-CHLOROETHOXY)METHA ISOPHORONE	-	107 109	75.00-104.00 73.00-102.00	-	BIS(2-CHLOROETHOXY)METH ISOPHORONE	J(all detects)
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SS-0.0-0.5)	3,5-Dimethylphenol BENZIDINE	0 0	0 0	71.00-127.00 35.00-141.00	- -	3,5-Dimethylphenol BENZIDINE	J(all detects) R(all non-detects)

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-230-SA6-SS-0.0-0.5MS SL-230-SA6-SS-0.0-0.5MSD (SL-230-SA6-SS-0.0-0.5)	BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE Butylbenzylphthalate	- - 177	- - -	43.00-155.00 57.00-153.00 57.00-173.00	55 (30.00) 44 (30.00) -	BENZO(B)FLUORANTHENE BENZO(K)FLUORANTHENE Butylbenzylphthalate	No Qual, Diluted Out
SL-230-SA6-SS-0.0-0.5MS SL-230-SA6-SS-0.0-0.5MSD (SL-230-SA6-SS-0.0-0.5)	Diethylphthalate Dimethylphthalate	- 0	0 0	70.00-136.00 74.00-118.00	200 (30.00) -	Diethylphthalate Dimethylphthalate	No Qual, Diluted Out
SL-230-SA6-SS-0.0-0.5MS SL-230-SA6-SS-0.0-0.5MSD (SL-230-SA6-SS-0.0-0.5)	BENZO(A)ANTHRACENE BENZO(A)PYRENE CHRYSENE FLUORANTHENE PYRENE	48 57 37 1 6	176 - 162 178 178	59.00-128.00 58.00-142.00 48.00-134.00 26.00-166.00 15.00-153.00	78 (30.00) 57 (30.00) 75 (30.00) 87 (30.00) 85 (30.00)	BENZO(A)ANTHRACENE BENZO(A)PYRENE CHRYSENE FLUORANTHENE PYRENE	No Qual, Diluted Out

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-232-SA6-SS-0.0-0.5MS (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	FLUORIDE	48	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

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

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	IRON MAGNESIUM	-2605 -35	-2803 -83	75.00-125.00 75.00-125.00	- -	IRON MAGNESIUM	No Qual, >4x
SL-229-SA6-SS-0.0-0.5MS SL-229-SA6-SS-0.0-0.5MSD (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	ALUMINUM	1357	1385	75.00-125.00	-	ALUMINUM	No Qual, >4x

# Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-232-SA6-SS-0.0-0.5DUP (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	FLUORIDE	200	20.00	No Qual, OK by Difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-229-SA6-SS-0.0-0.5DUP (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	ALUMINUM IRON MANGANESE SODIUM STRONTIUM Zirconium	23 22 39 52 28 26	20.00 20.00 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects)  Na, Zr, No Qual, OK by Difference

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-229-SA6-SS-0.0-0.5DUP (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	ANTIMONY ARSENIC BARIUM BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD MOLYBDENUM NICKEL SELENIUM VANADIUM ZINC	30 54 43 30 73 49 91 43 41 0.2985 mg/kg 51 22 38 44	20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 0.208 mg/kg 20.00 20.00 20.00 20.00	J(all detects) UJ(all non-detects)         Be, Cd, Se, No Qual, OK by Difference

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

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## Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 7471A

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-229-SA6-SS-0.0-0.5DUP (SL-229-SA6-SB-2.0-3.0 SL -229-SA6-SS-0.0-0.5 SL -230-SA6-SB-4.0-5.0 SL -230-SA6-SS-0.0-0.5 SL -232-SA6-SB-2.5-3.5 SL -232-SA6-SS-0.0-0.5 SL -234-SA6-SS-0.0-0.5 SL -254-SA6-SB-2.5-3.5 SL -268-SA6-SB-4.0-5.0)	MERCURY	200	20.00	No Qual, OK by Difference

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 8082**

**Matrix: AQ**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12858AY241027A (EB-SA6-SB-100611)	AROCLOR 1016 AROCLOR 1260	- -	- -	51.00-128.00 56.00-135.00	47 (30.00) 54 (30.00)	AROCLOR 1016, 1221, 1232 AROCLOR 1260, 1242, 1248, 1254, 1262, 1268	J (all detects) UJ (all non-detects)

**Method: 8081A**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P12863AQ241831A (SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5)	METHOXYCHLOR	139	-	59.00-125.00	-	METHOXYCHLOR	J(all detects)

**Method: 6020**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28326AQ220839A (SL-229-SA6-SB-2.0-3.0 SL-229-SA6-SS-0.0-0.5 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5 SL-268-SA6-SB-4.0-5.0)	ANTIMONY	132	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

# Surrogate Outlier Report

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-100611	N-Nitrosodimethylamine-d6	255	50.00-150.00	All Target Analytes	J (all detects)
	N-Nitrosodimethylamine-d6	258	50.00-150.00		

**Method:** 1625C  
**Matrix:** SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-230-SA6-SS-0.0-0.5	N-Nitrosodimethylamine-d6	171	50.00-150.00	All Target Analytes	J(all detects)

**Method:** 8081A  
**Matrix:** SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-232-SA6-SS-0.0-0.5	TETRACHLORO-M-XYLENE	41	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
	DECACHLOROBIPHENYL	11	20.00-120.00		J(all detects) UJ(all non-detects)
SL-234-SA6-SS-0.0-0.5	TETRACHLORO-M-XYLENE	10	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 6010B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100611	PHOSPHORUS	J	0.0068	0.100	PQL	mg/L	J (all detects)

Method: 7470A

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100611	MERCURY	J	0.000058	0.00020	PQL	mg/L	J (all detects)

Method: 8270C SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-100611	BIS(2-ETHYLHEXYL)PHTHALATE	J	0.13	0.95	PQL	ug/L	J (all detects)
	Diethylphthalate	J	0.15	0.95	PQL	ug/L	
	Di-n-butylphthalate	J	0.30	0.95	PQL	ug/L	
	NAPHTHALENE	J	0.033	0.048	PQL	ug/L	

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-268-SA6-SB-4.0-5.0	Nitrate-NO3	J	0.92	1.6	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA6-SB-2.0-3.0	SODIUM	J	85.6	102	PQL	mg/Kg	J (all detects)
	TIN	J	2.38	10.2	PQL	mg/Kg	
	Zirconium	J	1.92	5.09	PQL	mg/Kg	
SL-229-SA6-SS-0.0-0.5	SODIUM	J	98.9	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.13	10.4	PQL	mg/Kg	
	Zirconium	J	1.98	5.18	PQL	mg/Kg	
SL-230-SA6-SB-4.0-5.0	SODIUM	J	75.5	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.29	10.1	PQL	mg/Kg	
	Zirconium	J	1.42	5.06	PQL	mg/Kg	
SL-230-SA6-SS-0.0-0.5	SODIUM	J	88.4	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.88	10.4	PQL	mg/Kg	
	Zirconium	J	2.01	5.19	PQL	mg/Kg	
SL-232-SA6-SB-2.5-3.5	SODIUM	J	95.5	106	PQL	mg/Kg	J (all detects)
	TIN	J	2.67	10.6	PQL	mg/Kg	
	Zirconium	J	3.19	5.28	PQL	mg/Kg	
SL-232-SA6-SS-0.0-0.5	SODIUM	J	70.0	109	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	10.9	PQL	mg/Kg	
	Zirconium	J	1.52	5.44	PQL	mg/Kg	

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# Reporting Limit Outliers

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA6-SB-2.0-3.0	MERCURY	J	0.0125	0.0973	PQL	mg/Kg	J (all detects)
SL-230-SA6-SS-0.0-0.5	MERCURY	J	0.0441	0.103	PQL	mg/Kg	J (all detects)
SL-232-SA6-SB-2.5-3.5	MERCURY	J	0.0122	0.105	PQL	mg/Kg	J (all detects)
SL-232-SA6-SS-0.0-0.5	MERCURY	J	0.0127	0.111	PQL	mg/Kg	J (all detects)
SL-234-SA6-SS-0.0-0.5	MERCURY	J	0.0159	0.106	PQL	mg/Kg	J (all detects)
SL-254-SA6-SB-2.5-3.5	MERCURY	J	0.0137	0.100	PQL	mg/Kg	J (all detects)
SL-268-SA6-SB-4.0-5.0	MERCURY	J	0.0675	0.102	PQL	mg/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-268-SA6-SB-4.0-5.0	EFH (C15-C20)	J	0.61	1.3	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA6-SS-0.0-0.5	DELTA-BHC	J	0.12	0.18	PQL	ug/Kg	J (all detects)
SL-234-SA6-SS-0.0-0.5	ALPHA-BHC	J	0.057	0.19	PQL	ug/Kg	J (all detects)
	ENDRIN ALDEHYDE	J	0.096	0.38	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-230-SA6-SB-4.0-5.0	AROCLOR 1260	J	1.6	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	1.8	3.4	PQL	ug/Kg	J (all detects)
SL-234-SA6-SS-0.0-0.5	AROCLOR 1254	J	0.93	1.9	PQL	ug/Kg	J (all detects)
SL-254-SA6-SB-2.5-3.5	AROCLOR 1260	J	1.1	1.8	PQL	ug/Kg	J (all detects)
SL-268-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.51	1.8	PQL	ug/Kg	J (all detects)
	AROCLOR 1260	J	0.72	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-230-SA6-SS-0.0-0.5	2,4-D	J	1.3	3.8	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.57	1.3	PQL	ug/Kg	J (all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE263

Laboratory: LL

EDD Filename: DE263\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-232-SA6-SS-0.0-0.5	2,4-D	J	1.6	4.1	PQL	ug/Kg	J (all detects)
	DICAMBA	J	0.50	1.4	PQL	ug/Kg	
SL-234-SA6-SS-0.0-0.5	2,4-D	J	2.2	4.0	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-230-SA6-SS-0.0-0.5	BENZO(G,H,I)PERYLENE	J	20	180	PQL	ug/Kg	J (all detects)
SL-232-SA6-SB-2.5-3.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	360	PQL	ug/Kg	J (all detects)
SL-234-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	38	380	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA6-SB-2.0-3.0	BENZO(A)PYRENE	J	1.3	1.7	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	1.1	1.7	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	18	19	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	0.77	1.7	PQL	ug/Kg	
	PHENANTHRENE	J	1.0	1.7	PQL	ug/Kg	
SL-229-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	6.7	8.9	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	34	96	PQL	ug/Kg	
	CHRYSENE	J	1.9	8.9	PQL	ug/Kg	
SL-230-SA6-SB-4.0-5.0	BENZO(B)FLUORANTHENE	J	1.4	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.6	19	PQL	ug/Kg	
	CHRYSENE	J	0.41	1.7	PQL	ug/Kg	
SL-230-SA6-SS-0.0-0.5	ANTHRACENE	J	3.7	8.9	PQL	ug/Kg	J (all detects)
	INDENO(1,2,3-CD)PYRENE	J	8.2	8.9	PQL	ug/Kg	
SL-232-SA6-SS-0.0-0.5	BENZO(B)FLUORANTHENE	J	1.7	1.9	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.38	1.9	PQL	ug/Kg	
SL-234-SA6-SS-0.0-0.5	BENZO(A)PYRENE	J	0.92	1.9	PQL	ug/Kg	J (all detects)
	BENZO(G,H,I)PERYLENE	J	0.77	1.9	PQL	ug/Kg	
	CHRYSENE	J	1.6	1.9	PQL	ug/Kg	
	FLUORANTHENE	J	1.8	1.9	PQL	ug/Kg	
	FLUORENE	J	0.79	1.9	PQL	ug/Kg	
	NAPHTHALENE	J	0.82	1.9	PQL	ug/Kg	
	PHENANTHRENE	J	1.3	1.9	PQL	ug/Kg	
	PYRENE	J	1.6	1.9	PQL	ug/Kg	
SL-254-SA6-SB-2.5-3.5	BENZO(B)FLUORANTHENE	J	0.93	1.7	PQL	ug/Kg	J (all detects)
	BIS(2-ETHYLHEXYL)PHTHALATE	J	12	19	PQL	ug/Kg	
	Butylbenzylphthalate	J	8.2	19	PQL	ug/Kg	
	CHRYSENE	J	0.38	1.7	PQL	ug/Kg	
SL-268-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	33	94	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	2.1	8.7	PQL	ug/Kg	

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	MSD (Al, Ba, Fe, Mg, Mn, Ti, Zn) > 4K
VII.	Duplicate Sample Analysis	SW	DUP
VIII.	Laboratory Control Samples (LCS)	A	LCS (S)
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB=10

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

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

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

soil/water

1	SL-229-SA6-SS-0.0-0.5	11	(A) MS	21		31	
2	SL-230-SA6-SS-0.0-0.5	12	MSD	22		32	
3	SL-234-SA6-SS-0.0-0.5	13	DUP	23		33	
4	SL-232-SA6-SS-0.0-0.5	14		24		34	
5	SL-232-SA6-SB-2.5-3.5	15		25		35	
6	SL-229-SA6-SB-2.0-3.0	16		26		36	
7	SL-230-SA6-SB-4.0-5.0	17		27		37	
8	SL-254-SA6-SB-2.5-3.5	18		28		38	
9	SL-268-SA6-SB-4.0-5.0	19		29		39	
10	EB-SA6-SB-100611	20		30		40	

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

## VALIDATION FINDINGS WORKSHEET

## PB/ICB/CCB QUALIFIED SAMPLES

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

Soil preparation factor applied: 100x, Hg, 167x

Sample Concentration units, unless otherwise noted: ug/L

Associated Samples: All Water

Reason: B

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Reviewer: [Signature]

2nd Reviewer: [Signature]

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	10															
Hg			0.063	0.315	0.058															
P			1.8	9	6.8															

Sample Concentration units, unless otherwise noted: mg/Kg

Associated Samples: All Soil

Analyte	Maximum PB <sup>a</sup> (mg/Kg)	Maximum PB <sup>a</sup> (ug/L)	Maximum ICB/CCB <sup>a</sup> (ug/L)	Action Limit	3	4	5	6	8											
Hg			0.042	0.04	0.016	0.013	0.012	0.012	0.014											

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

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



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

Were field blanks identified in this SDG?

Were target analytes detected in the field blanks?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
--	---------------------------------------	----------------------------	------------------------------

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

Sampling date: 10/6/11 Soil factor applied 100x: Hg=167x

Field blank type: (circle one) Field Blank / Rinsate / Other: \_\_\_\_\_ Associated Samples: \_\_\_\_\_ All Sediment

[illegible]

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 6

DUPLICATES

SDG No.: DE263

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6431133BKG

Duplicate Lab Sample ID: 6431133DUP

% Solids for Duplicate: 93.8

% Solids for Sample: 93.8

Batch ID(s): P29308D, P28326A, P28308A, P29208D, P28311A

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			7106.3324		8917.8674		23	*	P
Antimony	121	0.2	0.1600	B	0.2165		30		MS
Arsenic	75		3.6268		6.2972		54	*	MS
Barium	137		50.5931		78.6635		43	*	MS
<del>Cerium</del>	9	0.1	0.3765		0.5092		30	*	MS
Boron			0.3726	U	0.3726	U			P
<del>Calcium</del>	111	0.1	0.1267		0.2739		73	*	MS
Calcium			1618.7675		1718.8451		6		P
Chromium	52		13.2320		21.7153		49	*	MS
Cobalt	59		4.1526		11.1205		91	*	MS
Copper	63		6.1337		9.5038		43	*	MS
Iron			17543.0799		14062.8227		22	*	P
Lead	208		8.5826		12.9671		41	*	MS
Lithium			14.8716		16.9075		13		P
Magnesium			3472.5348		3099.4743		11		P
Manganese			245.7366		364.8995		39	*	P
<del>Molybdenum</del>			0.0075	U	0.0103	B	200		CV
* Molybdenum	98	0.1	0.3076		0.6061		65	*	MS
Nickel	60		8.5888		14.4327		51	*	MS
Phosphorus			304.2830		348.1804		13		P
Potassium			1916.5214		2236.3291		15		P
<del>Selenium</del>	78		0.0739	B	0.0926	B	22		MS
Silver	107		0.0801	B	0.0759	B	5		MS
<del>Sodium</del>			98.9308	B	58.1593	B	52		P
Strontium			13.3428		10.1010		28	*	P
Thallium	203	0.1	0.1551		0.1878		19		MS
Tin			2.1343	B	2.1757	B	2		P
Titanium			642.1388		722.4719		12		P
Vanadium	51		23.4128		34.3635		38	*	MS
Zinc	66		51.6488		80.5680		44	*	MS
<del>Zirconium</del>			1.9759	B	1.5246	B	26		P

NOTE: An asterisk (\*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).

The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

\* Mo - out by difference: 0.2985(40.208) : J/JJ

DE263: 5524

## METHODS:

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

## CONCENTRATION QUALIFIERS:

U= Below MDL  
B= Below LOQ

## FLAGS:

\* = Duplicate Out of Spec



## QUALITY ASSURANCE SUMMARY

FORM 9

SERIAL DILUTIONS

SDG No.: DE263

Matrix: SOIL

Level (low/med): LOW

Background Lab Sample ID: 6431133BKG

Serial Dilution Lab Sample ID: 6431133L

Batch ID(s): P29308D, P28326A, P28308A, P29208D

Concentration Units: UG/L

Analyte	Mass	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Diff.	Q	M
Aluminum		68657.1200		65506.2000		5		P
Antimony	121	0.7728	B	1.8500	U	100		MS
Arsenic	75	17.5200		16.3750		7		MS
<del>Barium</del>	137	244.4000		272.1500		11	E	MS
Beryllium	9	1.8190		2.0150	B	11		MS
Boron		3.6000	U	18.0000	U			P
Cadmium	111	0.6122		1.1000	U	100		MS
Calcium		15639.5600		15536.6500		1		P
<del>Cerium</del>	52	63.9200		72.0500		13	E	MS
Cobalt	59	20.0600		21.5600		7		MS
Copper	63	29.6300		32.4400		9		MS
Iron		166199.6300		165876.7000		0		P
Lead	208	41.4600		44.8500		8		MS
Lithium		143.6800		151.1500		5		P
Magnesium		32898.1000		34149.5500		4		P
Manganese		2374.1600		2427.9000		2		P
Molybdenum	98	1.4860		1.6905	B	14		MS
Nickel	60	41.4900		45.5500		10		MS
Phosphorus		2939.8000		2881.3500		2		P
Potassium		18516.2800		18839.3000		2		P
Selenium	78	0.3570	B	1.4500	U	100		MS
Silver	107	0.3868	B	0.6025	B	56		MS
Sodium		955.8100	B	683.9500	B	28		P
Strontium		128.9100		123.1000		5		P
Thallium	203	0.7493		0.7500	U	100		MS
Tin		20.6200	B	17.9000	B	13		P
Titanium		6203.9600		6378.5000		3		P
<del>Sodium</del>	51	113.1000		129.6500		15	E	MS
Zinc	66	249.5000		270.6000		8		MS
Zirconium		19.0900	B	38.6500	B	102		P

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

## METHODS:

P = ICP Atomic Emission Spectrometer  
MS = ICP Mass Spectrometry

## CONCENTRATION QUALIFIERS:

DE263 5624

U= Below MDL

B= Below LOQ

## FLAGS:

E = Matrix Effects exist as proven by  
Serial Dilution or Spiked Dilution

# **SAMPLE DELIVERY GROUP**

**DE266**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Oct-2011	TB-101111	6434478	TB	3520C	1625C	III
11-Oct-2011	TB-101111	6434479	TB	3546	1625C	III
11-Oct-2011	TB-101111	6434480	TB	5030B	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3050B	6010B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3050B	6020	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3060A	7199	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3546	1625C	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8082	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8270C	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	3550B	8270C SIM	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	5035	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	8330	8330A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	300.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	7471A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8015M	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	8315A	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0	6434468	N	METHOD	9012B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0DUP	P434468D270158A	DUP	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MSD	P434468M322139A	MSD	METHOD	8015B	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MS	P434468R270221A	MS	METHOD	314.0	III
11-Oct-2011	SL-265-SA6-SB-4.0-5.0MS	P434468R322123A	MS	METHOD	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3050B	6010B	III

III = EPA Level 3 Data Review  
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-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3050B	6020	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3060A	7199	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3546	1625C	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8082	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8270C	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	3550B	8270C SIM	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	5035	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	8330	8330A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	300.0	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	314.0	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	7471A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8015B	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8015M	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	8315A	III
11-Oct-2011	SL-167-SA7-SB-0.5-1.5	6434475	N	METHOD	9012B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3050B	6010B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3050B	6020	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3060A	7199	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3546	1625C	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8015B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8082	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8270C	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review  
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-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	5035	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	8330	8330A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	300.0	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	314.0	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	7471A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8015B	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8015M	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	8315A	III
11-Oct-2011	SL-166-SA7-SB-1.0-2.0	6434474	N	METHOD	9012B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3050B	6010B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3050B	6020	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3060A	7199	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3546	1625C	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8015B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8015M	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8082	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8270C	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	3550B	8270C SIM	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	8330	8330A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	300.0	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	314.0	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	7471A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8015B	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8015M	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	8315A	III
11-Oct-2011	SL-162-SA7-SB-0.0-1.0	6434473	N	METHOD	9012B	III

III = EPA Level 3 Data Review  
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-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3050B	6010B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3050B	6020	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3060A	7199	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8015B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8082	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8270C	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	3550B	8270C SIM	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	5035	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	300.0	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	314.0	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	7471A	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	8015B	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	8015M	III
11-Oct-2011	SL-147-SA7-SB-1.0-2.0	6434469	N	METHOD	9012B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3050B	6010B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3050B	6020	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3060A	7199	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3546	1625C	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8015B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8082	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8270C	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	3550B	8270C SIM	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	5035	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	8330	8330A	III

III = EPA Level 3 Data Review  
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-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	300.0	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	314.0	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	7471A	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8015B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	8315A	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5	6434470	N	METHOD	9012B	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5MSD	P434470M320200A	MSD	METHOD	8015M	III
11-Oct-2011	SL-155-SA7-SB-1.5-2.5MS	P434470R320147A	MS	METHOD	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3050B	6010B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3050B	6020	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3060A	7199	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3546	1625C	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8015B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8082	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8270C	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	3550B	8270C SIM	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	5035	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	8330	8330A	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	300.0	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	314.0	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	7471A	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8015B	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8015M	III
11-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	8315A	III

III = EPA Level 3 Data Review  
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-Oct-2011	SL-168-SA7-SB-0.5-1.5	6434476	N	METHOD	9012B	III
11-Oct-2011	EB-SA7-SB-101111	6434477	EB	3520C	1625C	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3050B	6010B	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3050B	6020	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3060A	7199	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8082	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8270C	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	3550B	8270C SIM	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	300.0	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	314.0	III
11-Oct-2011	SL-009-SA3-SB-4.0-5.0	6434471	N	METHOD	7471A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3050B	6010B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3050B	6020	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3060A	7199	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3546	1625C	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8015B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8082	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8270C	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	3550B	8270C SIM	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	5035	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	8330	8330A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	300.0	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	314.0	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	7471A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8015B	III

III = EPA Level 3 Data Review  
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-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8015M	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	8315A	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0	6434472	N	METHOD	9012B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0DUP	P434472D272036B	DUP	METHOD	9012B	III
11-Oct-2011	SL-049-SA7-SB-4.0-5.0MS	P434472R272037B	MS	METHOD	9012B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-049-SA7-SB-4.0-5.0 Collected: 10/11/2011 3:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.92	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5 Collected: 10/11/2011 12:32:00 Analysis Type: RES Dilution: 1

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

Sample ID: SL-162-SA7-SB-0.0-1.0 Collected: 10/11/2011 11:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.95	J	0.85	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0 Collected: 10/11/2011 10:40:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	0.95	J	0.83	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5 Collected: 10/11/2011 9:25:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.2	J	0.84	MDL	1.6	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5 Collected: 10/11/2011 1:45:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Nitrate-NO3	1.1	J	0.83	MDL	1.5	PQL	mg/Kg	J	Z

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

Sample ID: SL-009-SA3-SB-4.0-5.0 Collected: 10/11/2011 3:05:00 Analysis Type: REA Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19800		2.80	MDL	21.5	PQL	mg/Kg	J	E
POTASSIUM	2920		12.1	MDL	53.6	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-009-SA3-SB-4.0-5.0

Collected: 10/11/2011 3:05:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TIN	4.24	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-009-SA3-SB-4.0-5.0

Collected: 10/11/2011 3:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	1.82	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0

Collected: 10/11/2011 3:25:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20000		2.61	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	2670		11.3	MDL	50.0	PQL	mg/Kg	J	Q
TIN	2.80	J	0.320	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-049-SA7-SB-4.0-5.0

Collected: 10/11/2011 3:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	77.8	J	5.95	MDL	100	PQL	mg/Kg	J	Z
Zirconium	1.83	J	0.460	MDL	5.00	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0

Collected: 10/11/2011 11:22:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	18500		2.70	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	2180		11.7	MDL	51.8	PQL	mg/Kg	J	Q
TIN	2.81	J	0.332	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-147-SA7-SB-1.0-2.0

Collected: 10/11/2011 11:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	69.6	J	6.17	MDL	104	PQL	mg/Kg	J	Z
Zirconium	1.56	J	0.477	MDL	5.18	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-155-SA7-SB-1.5-2.5

Collected: 10/11/2011 12:32:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	23200		2.61	MDL	20.0	PQL	mg/Kg	J	E
POTASSIUM	3360		11.3	MDL	50.1	PQL	mg/Kg	J	Q
TIN	2.87	J	0.321	MDL	10.0	PQL	mg/Kg	U	B

Sample ID: SL-155-SA7-SB-1.5-2.5

Collected: 10/11/2011 12:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	82.9	J	5.96	MDL	100	PQL	mg/Kg	J	Z
Zirconium	1.85	J	0.461	MDL	5.01	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0

Collected: 10/11/2011 11:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.73	MDL	20.9	PQL	mg/Kg	J	E
POTASSIUM	3120		11.8	MDL	52.3	PQL	mg/Kg	J	Q
TIN	2.93	J	0.335	MDL	10.5	PQL	mg/Kg	U	B

Sample ID: SL-162-SA7-SB-0.0-1.0

Collected: 10/11/2011 11:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.3	J	6.23	MDL	105	PQL	mg/Kg	J	Z
Zirconium	1.88	J	0.481	MDL	5.23	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0

Collected: 10/11/2011 10:40:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19400		2.70	MDL	20.7	PQL	mg/Kg	J	E
POTASSIUM	3040		11.7	MDL	51.7	PQL	mg/Kg	J	Q
TIN	2.86	J	0.331	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-166-SA7-SB-1.0-2.0

Collected: 10/11/2011 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	72.2	J	6.16	MDL	103	PQL	mg/Kg	J	Z
Zirconium	1.89	J	0.476	MDL	5.17	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-167-SA7-SB-0.5-1.5

Collected: 10/11/2011 9:25:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19900		2.69	MDL	20.6	PQL	mg/Kg	J	E
POTASSIUM	2990		11.7	MDL	51.6	PQL	mg/Kg	J	Q
TIN	2.95	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-167-SA7-SB-0.5-1.5

Collected: 10/11/2011 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	64.9	J	6.14	MDL	103	PQL	mg/Kg	J	Z
Zirconium	1.89	J	0.475	MDL	5.16	PQL	mg/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5

Collected: 10/11/2011 1:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	19100		2.64	MDL	20.2	PQL	mg/Kg	J	E
POTASSIUM	2930		11.4	MDL	50.5	PQL	mg/Kg	J	Q
TIN	2.82	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

Sample ID: SL-168-SA7-SB-0.5-1.5

Collected: 10/11/2011 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	63.1	J	6.01	MDL	101	PQL	mg/Kg	J	Z
Zirconium	1.85	J	0.465	MDL	5.05	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0

Collected: 10/11/2011 8:47:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
IRON	20900		2.80	MDL	21.4	PQL	mg/Kg	J	E
POTASSIUM	2260		12.1	MDL	53.6	PQL	mg/Kg	J	Q
TIN	3.02	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-265-SA6-SB-4.0-5.0

Collected: 10/11/2011 8:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.90	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-009-SA3-SB-4.0-5.0

Collected: 10/11/2011 3:05:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.100	J	0.0622	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-009-SA3-SB-4.0-5.0

Collected: 10/11/2011 3:05:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.932		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-009-SA3-SB-4.0-5.0

Collected: 10/11/2011 3:05:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.298		0.0794	MDL	0.215	PQL	mg/Kg	J	Q
ARSENIC	9.87		0.0858	MDL	0.429	PQL	mg/Kg	J	E
COBALT	6.33		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	42.8		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	23.9		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.217		0.0152	MDL	0.107	PQL	mg/Kg	J	Q

Sample ID: SL-049-SA7-SB-4.0-5.0

Collected: 10/11/2011 3:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.140	J	0.0598	MDL	0.412	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0

Collected: 10/11/2011 3:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.432		0.0515	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-049-SA7-SB-4.0-5.0

Collected: 10/11/2011 3:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.142	J	0.0762	MDL	0.206	PQL	mg/Kg	J	Z, Q
ARSENIC	4.77		0.0824	MDL	0.412	PQL	mg/Kg	J	E
COBALT	6.87		0.0206	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.41		0.0824	MDL	0.412	PQL	mg/Kg	J	Q, E
NICKEL	14.2		0.103	MDL	0.412	PQL	mg/Kg	J	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-049-SA7-SB-4.0-5.0

Collected: 10/11/2011 3:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0173	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-147-SA7-SB-1.0-2.0

Collected: 10/11/2011 11:22:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.185	J	0.0595	MDL	0.410	PQL	mg/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0

Collected: 10/11/2011 11:22:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.286		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-147-SA7-SB-1.0-2.0

Collected: 10/11/2011 11:22:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.152	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.03		0.0821	MDL	0.410	PQL	mg/Kg	J	E
COBALT	5.87		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	5.78		0.0821	MDL	0.410	PQL	mg/Kg	J	Q, E
NICKEL	7.57		0.103	MDL	0.410	PQL	mg/Kg	J	Q

Sample ID: SL-155-SA7-SB-1.5-2.5

Collected: 10/11/2011 12:32:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.216	J	0.0581	MDL	0.401	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5

Collected: 10/11/2011 12:32:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.728		0.0501	MDL	0.100	PQL	mg/Kg	J	E

Sample ID: SL-155-SA7-SB-1.5-2.5

Collected: 10/11/2011 12:32:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.146	J	0.0741	MDL	0.200	PQL	mg/Kg	J	Z, Q
ARSENIC	5.28		0.0801	MDL	0.401	PQL	mg/Kg	J	E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-155-SA7-SB-1.5-2.5

Collected: 10/11/2011 12:32:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COBALT	9.38		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E
COPPER	10.7		0.0801	MDL	0.401	PQL	mg/Kg	J	Q, E
NICKEL	19.8		0.100	MDL	0.401	PQL	mg/Kg	J	Q
SILVER	0.0252	J	0.0142	MDL	0.100	PQL	mg/Kg	J	Z, Q

Sample ID: SL-162-SA7-SB-0.0-1.0

Collected: 10/11/2011 11:15:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.121	J	0.0595	MDL	0.411	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0

Collected: 10/11/2011 11:15:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.424		0.0513	MDL	0.103	PQL	mg/Kg	J	E

Sample ID: SL-162-SA7-SB-0.0-1.0

Collected: 10/11/2011 11:15:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.135	J	0.0759	MDL	0.205	PQL	mg/Kg	J	Z, Q
ARSENIC	4.37		0.0821	MDL	0.411	PQL	mg/Kg	J	E
COBALT	6.40		0.0205	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.65		0.0821	MDL	0.411	PQL	mg/Kg	J	Q, E
NICKEL	12.9		0.103	MDL	0.411	PQL	mg/Kg	J	Q
SILVER	0.0222	J	0.0146	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-166-SA7-SB-1.0-2.0

Collected: 10/11/2011 10:40:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.112	J	0.0600	MDL	0.414	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0

Collected: 10/11/2011 10:40:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.408		0.0517	MDL	0.103	PQL	mg/Kg	J	E

\* denotes a non-reportable result

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

1/12/2012 9:08:58 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-166-SA7-SB-1.0-2.0

Collected: 10/11/2011 10:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.168	J	0.0766	MDL	0.207	PQL	mg/Kg	J	Z, Q
ARSENIC	4.64		0.0828	MDL	0.414	PQL	mg/Kg	J	E
COBALT	6.26		0.0207	MDL	0.103	PQL	mg/Kg	J	Q, E
COPPER	8.59		0.0828	MDL	0.414	PQL	mg/Kg	J	Q, E
NICKEL	12.7		0.103	MDL	0.414	PQL	mg/Kg	J	Q
SILVER	0.0263	J	0.0147	MDL	0.103	PQL	mg/Kg	J	Z, Q

Sample ID: SL-167-SA7-SB-0.5-1.5

Collected: 10/11/2011 9:25:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.101	J	0.0593	MDL	0.409	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5

Collected: 10/11/2011 9:25:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.434		0.0511	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-167-SA7-SB-0.5-1.5

Collected: 10/11/2011 9:25:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.163	J	0.0756	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	4.78		0.0818	MDL	0.409	PQL	mg/Kg	J	E
COBALT	6.74		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	8.76		0.0818	MDL	0.409	PQL	mg/Kg	J	Q, E
NICKEL	13.4		0.102	MDL	0.409	PQL	mg/Kg	J	Q
SILVER	0.0378	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-168-SA7-SB-0.5-1.5

Collected: 10/11/2011 1:45:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0808	J	0.0592	MDL	0.408	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-168-SA7-SB-0.5-1.5

Collected: 10/11/2011 1:45:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.320		0.0510	MDL	0.102	PQL	mg/Kg	J	E

Sample ID: SL-168-SA7-SB-0.5-1.5

Collected: 10/11/2011 1:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0933	J	0.0755	MDL	0.204	PQL	mg/Kg	J	Z, Q
ARSENIC	3.49		0.0816	MDL	0.408	PQL	mg/Kg	J	E
COBALT	5.04		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E
COPPER	6.34		0.0816	MDL	0.408	PQL	mg/Kg	J	Q, E
NICKEL	9.62		0.102	MDL	0.408	PQL	mg/Kg	J	Q
SILVER	0.0234	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q

Sample ID: SL-265-SA6-SB-4.0-5.0

Collected: 10/11/2011 8:47:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0999	J	0.0621	MDL	0.429	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0

Collected: 10/11/2011 8:47:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.500		0.0536	MDL	0.107	PQL	mg/Kg	J	E

Sample ID: SL-265-SA6-SB-4.0-5.0

Collected: 10/11/2011 8:47:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.0793	MDL	0.214	PQL	mg/Kg	J	Z, Q
ARSENIC	5.19		0.0857	MDL	0.429	PQL	mg/Kg	J	E
CADMIUM	0.103	J	0.0471	MDL	0.107	PQL	mg/Kg	J	Z
COBALT	5.62		0.0214	MDL	0.107	PQL	mg/Kg	J	Q, E
COPPER	8.96		0.0857	MDL	0.429	PQL	mg/Kg	J	Q, E
NICKEL	14.8		0.107	MDL	0.429	PQL	mg/Kg	J	Q
SILVER	0.0402	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-009-SA3-SB-4.0-5.0

Collected: 10/11/2011 3:05:00

Analysis Type: RES

Dilution: 1

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

Sample ID: SL-049-SA7-SB-4.0-5.0

Collected: 10/11/2011 3:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.64	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5

Collected: 10/11/2011 12:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.22	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-162-SA7-SB-0.0-1.0

Collected: 10/11/2011 11:15:00

Analysis Type: RES

Dilution: 1

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

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

Sample ID: SL-009-SA3-SB-4.0-5.0

Collected: 10/11/2011 3:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0712	J	0.0077	MDL	0.109	PQL	mg/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0

Collected: 10/11/2011 3:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0087	J	0.0070	MDL	0.0988	PQL	mg/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5

Collected: 10/11/2011 12:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0073	J	0.0070	MDL	0.0992	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 7471A

Matrix: SO

Sample ID: SL-162-SA7-SB-0.0-1.0

Collected: 10/11/2011 11:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0085	J	0.0073	MDL	0.104	PQL	mg/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0

Collected: 10/11/2011 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0099	J	0.0072	MDL	0.102	PQL	mg/Kg	J	Z

Method Category: SVOA

Method: 1625C

Matrix: AQ

Sample ID: EB-SA7-SB-101111

Collected: 10/11/2011 2:30:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	3.07		0.483	MDL	0.965	PQL	ng/L	UJ	B, S, T

Sample ID: TB-101111

Collected: 10/11/2011 8:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	1.16		0.499	MDL	0.997	PQL	ng/L	UJ	B, S

Method Category: SVOA

Method: 1625C

Matrix: SO

Sample ID: SL-155-SA7-SB-1.5-2.5

Collected: 10/11/2011 12:32:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	22.2	J	17.2	MDL	34.4	PQL	ng/Kg	J	Z

Method Category: SVOA

Method: 8015M

Matrix: SO

Sample ID: SL-049-SA7-SB-4.0-5.0

Collected: 10/11/2011 3:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	1.0	J	0.42	MDL	1.2	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-155-SA7-SB-1.5-2.5			Collected: 10/11/2011 12:32:00		Analysis Type: REA			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
ETHYLENE GLYCOL	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q
Propylene glycol	5.2	U	5.2	MDL	10	PQL	mg/Kg	UJ	Q

Sample ID: SL-155-SA7-SB-1.5-2.5			Collected: 10/11/2011 12:32:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	1.0	J	0.42	MDL	1.3	PQL	mg/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5			Collected: 10/11/2011 9:25:00		Analysis Type: REA2		Dilution: 26.04		
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.9	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0			Collected: 10/11/2011 8:47:00		Analysis Type: REA2			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHYLENE GLYCOL	5.5	J	5.5	MDL	11	PQL	mg/Kg	J	Z

<b>Method Category:</b>	SVOA
<b>Method:</b>	8082
<b>Matrix:</b>	SO

Sample ID: SL-162-SA7-SB-0.0-1.0			Collected: 10/11/2011 11:15:00		Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.3	J	0.41	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5			Collected: 10/11/2011 9:25:00		Analysis Type: RES-BASE/NEUTRAL			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1248	0.48	J	0.35	MDL	1.8	PQL	ug/Kg	J	Z
Aroclor 5460	2.0	J	1.1	MDL	3.5	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 8082

**Matrix:** SO

**Sample ID:** SL-168-SA7-SB-0.5-1.5

**Collected:** 10/11/2011 1:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	2.1	J	1.0	MDL	3.4	PQL	ug/Kg	J	Z

**Sample ID:** SL-265-SA6-SB-4.0-5.0

**Collected:** 10/11/2011 8:47:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.89	J	0.36	MDL	1.9	PQL	ug/Kg	J	Z

**Method Category:** SVOA

**Method:** 8270C

**Matrix:** SO

**Sample ID:** SL-009-SA3-SB-4.0-5.0

**Collected:** 10/11/2011 3:05:00

**Analysis Type:** RES-ACID

**Dilution:** 1

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

**Sample ID:** SL-049-SA7-SB-4.0-5.0

**Collected:** 10/11/2011 3:25:00

**Analysis Type:** RES-ACID

**Dilution:** 1

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

**Sample ID:** SL-147-SA7-SB-1.0-2.0

**Collected:** 10/11/2011 11:22:00

**Analysis Type:** RES-ACID

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

**Sample ID:** SL-155-SA7-SB-1.5-2.5

**Collected:** 10/11/2011 12:32:00

**Analysis Type:** RES-ACID

**Dilution:** 1

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

**Sample ID:** SL-162-SA7-SB-0.0-1.0

**Collected:** 10/11/2011 11:15:00

**Analysis Type:** RES-ACID

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	530	PQL	ug/Kg	UJ	L

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-166-SA7-SB-1.0-2.0

Collected: 10/11/2011 10:40:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	510	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	25	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	35	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	19	J	17	MDL	170	PQL	ug/Kg	J	Z
CHRYSENE	30	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	55	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	18	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENANTHRENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	44	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-167-SA7-SB-0.5-1.5

Collected: 10/11/2011 9:25:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
ACENAPHTHENE	57	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	24	J	17	MDL	350	PQL	ug/Kg	J	Z
DIBENZOFURAN	53	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORENE	58	J	17	MDL	170	PQL	ug/Kg	J	Z
PHENOL	19	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-168-SA7-SB-0.5-1.5

Collected: 10/11/2011 1:45:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	170	U	170	MDL	520	PQL	ug/Kg	UJ	L
BENZO(A)ANTHRACENE	38	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	65	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	47	J	17	MDL	170	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	27	J	17	MDL	170	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	30	J	17	MDL	340	PQL	ug/Kg	J	Z
CHRYSENE	45	J	17	MDL	170	PQL	ug/Kg	J	Z
FLUORANTHENE	94	J	17	MDL	170	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	40	J	17	MDL	170	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Sample ID: SL-168-SA7-SB-0.5-1.5      Collected: 10/11/2011 1:45:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHENANTHRENE	49	J	17	MDL	170	PQL	ug/Kg	J	Z
PYRENE	80	J	17	MDL	170	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0      Collected: 10/11/2011 8:47:00      Analysis Type: RES-ACID      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	180	U	180	MDL	540	PQL	ug/Kg	UJ	L

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

Sample ID: SL-009-SA3-SB-4.0-5.0      Collected: 10/11/2011 3:05:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	9.0	J	6.6	MDL	20	PQL	ug/Kg	J	Z

Sample ID: SL-049-SA7-SB-4.0-5.0      Collected: 10/11/2011 3:25:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHRYSENE	1.2	J	0.35	MDL	1.7	PQL	ug/Kg	J	Z
PYRENE	0.75	J	0.69	MDL	1.7	PQL	ug/Kg	J	Z

Sample ID: SL-147-SA7-SB-1.0-2.0      Collected: 10/11/2011 11:22:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	13	J	6.4	MDL	19	PQL	ug/Kg	J	Z
NAPHTHALENE	0.79	J	0.71	MDL	1.8	PQL	ug/Kg	J	Z

Sample ID: SL-155-SA7-SB-1.5-2.5      Collected: 10/11/2011 12:32:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	15	J	6.3	MDL	19	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

1/12/2012 9:08:58 AM

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## Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-162-SA7-SB-0.0-1.0

Collected: 10/11/2011 11:15:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	7.6	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	4.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHthalate	78	J	32	MDL	95	PQL	ug/Kg	J	Z
Butylbenzylphthalate	58	J	32	MDL	95	PQL	ug/Kg	J	Z
CHRYSENE	6.9	J	1.8	MDL	8.8	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	3.8	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z
PHENANTHRENE	5.2	J	3.5	MDL	8.8	PQL	ug/Kg	J	Z

Sample ID: SL-166-SA7-SB-1.0-2.0

Collected: 10/11/2011 10:40:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	2.9	J	1.7	MDL	8.7	PQL	ug/Kg	J	Z

Sample ID: SL-265-SA6-SB-4.0-5.0

Collected: 10/11/2011 8:47:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	6.7	J	6.6	MDL	20	PQL	ug/Kg	J	Z
CHRYSENE	0.72	J	0.36	MDL	1.8	PQL	ug/Kg	J	Z

Method Category: VOA

Method: 8015B

Matrix: SO

Sample ID: SL-265-SA6-SB-4.0-5.0

Collected: 10/11/2011 8:47:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ETHANOL	110	U	110	MDL	550	PQL	ug/Kg	UJ	Q

\* denotes a non-reportable result

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: DE266

Laboratory: LL

EDD Filename: DE266\_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: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DE266

# Method Blank Outlier Report

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
PLKWH28B261523	10/17/2011 3:23:00 PM	N-NITROSODIMETHYLAMINE	1.14 ng/L	EB-SA7-SB-101111 TB-101111

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101111(RES)	N-NITROSODIMETHYLAMINE	3.07 ng/L	3.07U ng/L
TB-101111(RES)	N-NITROSODIMETHYLAMINE	1.16 ng/L	1.16U ng/L

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P28508AB220113	10/20/2011 1:13:00 AM	BORON PHOSPHORUS STRONTIUM	0.599 mg/Kg 1.39 mg/Kg 0.0750 mg/Kg	SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0
P28508AB220332	10/21/2011 3:32:00 AM	CALCIUM IRON MAGNESIUM TIN	13.1 mg/Kg 2.73 mg/Kg 0.891 mg/Kg 1.44 mg/Kg	SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-009-SA3-SB-4.0-5.0(REA)	TIN	4.24 mg/Kg	4.24U mg/Kg
SL-049-SA7-SB-4.0-5.0(REA)	TIN	2.80 mg/Kg	2.80U mg/Kg
SL-147-SA7-SB-1.0-2.0(REA)	TIN	2.81 mg/Kg	2.81U mg/Kg
SL-155-SA7-SB-1.5-2.5(REA)	TIN	2.87 mg/Kg	2.87U mg/Kg
SL-162-SA7-SB-0.0-1.0(REA)	TIN	2.93 mg/Kg	2.93U mg/Kg
SL-166-SA7-SB-1.0-2.0(REA)	TIN	2.86 mg/Kg	2.86U mg/Kg
SL-167-SA7-SB-0.5-1.5(REA)	TIN	2.95 mg/Kg	2.95U mg/Kg
SL-168-SA7-SB-0.5-1.5(REA)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-265-SA6-SB-4.0-5.0(REA)	TIN	3.02 mg/Kg	3.02U mg/Kg

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

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# Trip Blank Outlier Report

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1625C  
Matrix: AQ

Trip Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
TB-101111(RES)	10/11/2011 8:00:00 AM	N-NITROSODIMETHYLAMINE	1.16 ng/L	EB-SA7-SB-101111 SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA7-SB-101111(RES)	N-NITROSODIMETHYLAMINE	3.07 ng/L	3.07U ng/L

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-265-SA6-SB-4.0-5.0MSD (SL-265-SA6-SB-4.0-5.0)	Isopropanol	-	-	12.00-149.00	51 (20.00)	Isopropanol	J (all detects)
	METHANOL	-	-	43.00-138.00	49 (20.00)	METHANOL	
SL-265-SA6-SB-4.0-5.0MS SL-265-SA6-SB-4.0-5.0MSD (SL-265-SA6-SB-4.0-5.0)	ETHANOL	43	-	48.00-130.00	48 (20.00)	ETHANOL	J(all detects) UJ(all non-detects)

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

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-155-SA7-SB-1.5-2.5MS	DIETHYLENE GLYCOL	9	8	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects)
SL-155-SA7-SB-1.5-2.5MSD	ETHYLENE GLYCOL	43	42	63.00-107.00	-	ETHYLENE GLYCOL	UJ(all non-detects)
(SL-155-SA7-SB-1.5-2.5)	Propylene glycol	52	50	63.00-107.00	-	Propylene glycol	

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P28526AQ220817A (SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0)	ANTIMONY	139	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within QC Limits

Method: 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0LELCSQ260920 (SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0)	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMIN	116 113 107 109	- - - -	66.00-110.00 68.00-111.00 70.00-104.00 63.00-107.00	- - - -	2-METHYLPHENOL BENZYL ALCOHOL BIS(2-CHLOROETHYL) ETHER N-NITROSO-DI-N-PROPYLAMIN	J(all detects)
P0LELCSQ260920 (SL-009-SA3-SB-4.0-5.0 SL-049-SA7-SB-4.0-5.0 SL-147-SA7-SB-1.0-2.0 SL-155-SA7-SB-1.5-2.5 SL-162-SA7-SB-0.0-1.0 SL-166-SA7-SB-1.0-2.0 SL-167-SA7-SB-0.5-1.5 SL-168-SA7-SB-0.5-1.5 SL-265-SA6-SB-4.0-5.0)	4,6-DINITRO-2-METHYLPHENOL	41	-	46.00-120.00	-	4,6-DINITRO-2-METHYLPHENOL	J(all detects) UJ(all non-detects)

# Surrogate Outlier Report

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1625C

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA7-SB-101111	N-Nitrosodimethylamine-d6	320	50.00-150.00	All Target Analytes	J (all detects)
TB-101111	N-Nitrosodimethylamine-d6	171	50.00-150.00	All Target Analytes	J(all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1625C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-155-SA7-SB-1.5-2.5	N-NITROSODIMETHYLAMINE	J	22.2	34.4	PQL	ng/Kg	J (all detects)

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SB-4.0-5.0	Nitrate-NO3	J	0.92	1.6	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	Nitrate-NO3	J	1.3	1.6	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-166-SA7-SB-1.0-2.0	Nitrate-NO3	J	0.95	1.6	PQL	mg/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	Nitrate-NO3	J	1.2	1.6	PQL	mg/Kg	J (all detects)
SL-168-SA7-SB-0.5-1.5	Nitrate-NO3	J	1.1	1.5	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	TIN	J	4.24	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	1.82	5.36	PQL	mg/Kg	
SL-049-SA7-SB-4.0-5.0	SODIUM	J	77.8	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.80	10.0	PQL	mg/Kg	
	Zirconium	J	1.83	5.00	PQL	mg/Kg	
SL-147-SA7-SB-1.0-2.0	SODIUM	J	69.6	104	PQL	mg/Kg	J (all detects)
	TIN	J	2.81	10.4	PQL	mg/Kg	
	Zirconium	J	1.56	5.18	PQL	mg/Kg	
SL-155-SA7-SB-1.5-2.5	SODIUM	J	82.9	100	PQL	mg/Kg	J (all detects)
	TIN	J	2.87	10.0	PQL	mg/Kg	
	Zirconium	J	1.85	5.01	PQL	mg/Kg	
SL-162-SA7-SB-0.0-1.0	SODIUM	J	64.3	105	PQL	mg/Kg	J (all detects)
	TIN	J	2.93	10.5	PQL	mg/Kg	
	Zirconium	J	1.88	5.23	PQL	mg/Kg	
SL-166-SA7-SB-1.0-2.0	SODIUM	J	72.2	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.86	10.3	PQL	mg/Kg	
	Zirconium	J	1.89	5.17	PQL	mg/Kg	
SL-167-SA7-SB-0.5-1.5	SODIUM	J	64.9	103	PQL	mg/Kg	J (all detects)
	TIN	J	2.95	10.3	PQL	mg/Kg	
	Zirconium	J	1.89	5.16	PQL	mg/Kg	
SL-168-SA7-SB-0.5-1.5	SODIUM	J	63.1	101	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	10.1	PQL	mg/Kg	
	Zirconium	J	1.85	5.05	PQL	mg/Kg	
SL-265-SA6-SB-4.0-5.0	TIN	J	3.02	10.7	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.90	5.36	PQL	mg/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	SELENIUM	J	0.100	0.429	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	ANTIMONY	J	0.142	0.206	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.140	0.412	PQL	mg/Kg	
	SILVER	J	0.0173	0.103	PQL	mg/Kg	
SL-147-SA7-SB-1.0-2.0	ANTIMONY	J	0.152	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.185	0.410	PQL	mg/Kg	
SL-155-SA7-SB-1.5-2.5	ANTIMONY	J	0.146	0.200	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.216	0.401	PQL	mg/Kg	
	SILVER	J	0.0252	0.100	PQL	mg/Kg	
SL-162-SA7-SB-0.0-1.0	ANTIMONY	J	0.135	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.121	0.411	PQL	mg/Kg	
	SILVER	J	0.0222	0.103	PQL	mg/Kg	
SL-166-SA7-SB-1.0-2.0	ANTIMONY	J	0.168	0.207	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.112	0.414	PQL	mg/Kg	
	SILVER	J	0.0263	0.103	PQL	mg/Kg	
SL-167-SA7-SB-0.5-1.5	ANTIMONY	J	0.163	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.101	0.409	PQL	mg/Kg	
	SILVER	J	0.0378	0.102	PQL	mg/Kg	
SL-168-SA7-SB-0.5-1.5	ANTIMONY	J	0.0933	0.204	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0808	0.408	PQL	mg/Kg	
	SILVER	J	0.0234	0.102	PQL	mg/Kg	
SL-265-SA6-SB-4.0-5.0	ANTIMONY	J	0.182	0.214	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.103	0.107	PQL	mg/Kg	
	SELENIUM	J	0.0999	0.429	PQL	mg/Kg	
	SILVER	J	0.0402	0.107	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.64	1.0	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	HEXAVALENT CHROMIUM	J	0.22	1.1	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	HEXAVALENT CHROMIUM	J	0.27	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	MERCURY	J	0.0712	0.109	PQL	mg/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	MERCURY	J	0.0087	0.0988	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	MERCURY	J	0.0073	0.0992	PQL	mg/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	MERCURY	J	0.0085	0.104	PQL	mg/Kg	J (all detects)
SL-166-SA7-SB-1.0-2.0	MERCURY	J	0.0099	0.102	PQL	mg/Kg	J (all detects)

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

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ADR version 1.4.0.111

Page 2 of 4

# Reporting Limit Outliers

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-049-SA7-SB-4.0-5.0	EFH (C15-C20)	J	1.0	1.2	PQL	mg/Kg	J (all detects)
SL-155-SA7-SB-1.5-2.5	EFH (C30-C40)	J	1.0	1.3	PQL	mg/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	GASOLINE RANGE ORGANICS (C5-C12)	J	0.9	1.1	PQL	mg/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	ETHYLENE GLYCOL	J	5.5	11	PQL	mg/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-162-SA7-SB-0.0-1.0	AROCLOR 1260	J	1.3	1.8	PQL	ug/Kg	J (all detects)
SL-167-SA7-SB-0.5-1.5	AROCLOR 1248	J	0.48	1.8	PQL	ug/Kg	J (all detects)
	Aroclor 5460	J	2.0	3.5	PQL	ug/Kg	
SL-168-SA7-SB-0.5-1.5	Aroclor 5460	J	2.1	3.4	PQL	ug/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	AROCLOR 1254	J	0.89	1.9	PQL	ug/Kg	J (all detects)

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA7-SB-1.0-2.0	BENZO(A)ANTHRACENE	J	27	170	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	25	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	35	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	18	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	19	170	PQL	ug/Kg	
	CHRYSENE	J	30	170	PQL	ug/Kg	
	FLUORANTHENE	J	55	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	18	170	PQL	ug/Kg	
	PHENANTHRENE	J	27	170	PQL	ug/Kg	
SL-167-SA7-SB-0.5-1.5	PYRENE	J	44	170	PQL	ug/Kg	J (all detects)
	ACENAPHTHENE	J	57	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	24	350	PQL	ug/Kg	
	DIBENZOFURAN	J	53	170	PQL	ug/Kg	
	FLUORENE	J	58	170	PQL	ug/Kg	
SL-168-SA7-SB-0.5-1.5	PHENOL	J	19	170	PQL	ug/Kg	J (all detects)
	BENZO(A)ANTHRACENE	J	38	170	PQL	ug/Kg	
	BENZO(A)PYRENE	J	49	170	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	65	170	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	47	170	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	27	170	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	30	340	PQL	ug/Kg	
	CHRYSENE	J	45	170	PQL	ug/Kg	
	FLUORANTHENE	J	94	170	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	40	170	PQL	ug/Kg	
	PHENANTHRENE	J	49	170	PQL	ug/Kg	
	PYRENE	J	80	170	PQL	ug/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DE266

Laboratory: LL

EDD Filename: DE266\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA3-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	9.0	20	PQL	ug/Kg	J (all detects)
SL-049-SA7-SB-4.0-5.0	CHRYSENE	J	1.2	1.7	PQL	ug/Kg	J (all detects)
	PYRENE	J	0.75	1.7	PQL	ug/Kg	
SL-147-SA7-SB-1.0-2.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	13	19	PQL	ug/Kg	J (all detects)
	NAPHTHALENE	J	0.79	1.8	PQL	ug/Kg	
SL-155-SA7-SB-1.5-2.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	15	19	PQL	ug/Kg	J (all detects)
SL-162-SA7-SB-0.0-1.0	BENZO(A)ANTHRACENE	J	6.2	8.8	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	7.6	8.8	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	4.2	8.8	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	78	95	PQL	ug/Kg	
	Butylbenzylphthalate	J	58	95	PQL	ug/Kg	
	CHRYSENE	J	6.9	8.8	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	3.8	8.8	PQL	ug/Kg	
	PHENANTHRENE	J	5.2	8.8	PQL	ug/Kg	
SL-166-SA7-SB-1.0-2.0	ANTHRACENE	J	2.9	8.7	PQL	ug/Kg	J (all detects)
SL-265-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	6.7	20	PQL	ug/Kg	J (all detects)
	CHRYSENE	J	0.72	1.8	PQL	ug/Kg	

LDC #: 26923C4

## VALIDATION COMPLETENESS WORKSHEET

SDG #: DE266

ADR

Laboratory: Lancaster Laboratories

Date: 1/6/12

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	No find by 20B/20P
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	06/26/5
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A SW	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A K	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

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

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

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

1	SL-265-SA6-SB-4.0-5.0	11		21		31	
2	SL-147-SA7-SB-1.0-2.0	12		22		32	
3	SL-155-SA7-SB-1.5-2.5	13		23		33	
4	SL-009-SA7-SB-4.0-5.0	14		24		34	
5	SL-049-SA7-SB-4.0-5.0	15		25		35	
6	SL-162-SA7-SB-0.0-1.0	16		26		36	
7	SL-166-SA7-SB-1.0-2.0	17		27		37	
8	SL-167-SA7-SB-0.5-1.5	18		28		38	
9	SL-168-SA7-SB-0.5-1.5	19		29		39	
10		20		30		40	

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

# **SAMPLE DELIVERY GROUP**

**DE290**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3050B	6010B	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3050B	6020	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3060A	7199	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8015B	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8015M	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8081A	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8082	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8151A	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8270C	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	3550B	8270C SIM	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	300.0	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	314.0	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	7471A	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	8015B	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	8015M	III
29-Nov-2011	SL-285-SA6-SS-0.0-0.5	6487625	N	METHOD	9012B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3050B	6010B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3050B	6020	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3060A	7199	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3546	1625C	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3550B	8015B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3550B	8015M	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3550B	8082	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3550B	8270C	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	3550B	8270C SIM	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	5035	8015M	III

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

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	5035	8260B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	5035	8260B SIM	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	8330	8330A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	300.0	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	314.0	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	7471A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	8015B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	8015M	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	8315A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0	6487626	N	METHOD	9012B	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MSD	P487626M240125A	MSD	8330	8330A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MSD	P487626M241736A	MSD	METHOD	8315A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MSD	P487626M261437	MSD	3546	1625C	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MS	P487626R240043A	MS	8330	8330A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MS	P487626R241727A	MS	METHOD	8315A	III
29-Nov-2011	SL-285-SA6-SB-4.0-5.0MS	P487626R261418	MS	3546	1625C	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3050B	6010B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3050B	6020	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3060A	7199	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3546	1625C	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3550B	8015B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3550B	8015M	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3550B	8082	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3550B	8270C	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	3550B	8270C SIM	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	5035	8015M	III

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

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate



## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	5035	8260B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	5035	8260B SIM	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	8330	8330A	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	300.0	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	314.0	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	7471A	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	8015B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	8015M	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	8315A	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0	6487627	N	METHOD	9012B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0DUP	P487627D220405	DUP	3050B	6010B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0MSD	P487627M220414	MSD	3050B	6010B	III
29-Nov-2011	SL-285-SA6-SB-6.0-7.0MS	P487627R220409	MS	3050B	6010B	III
30-Nov-2011	TB-113011	6487646	TB	3546	1625C	III
30-Nov-2011	TB-113011	6487647	TB	3520C	1625C	III
30-Nov-2011	TB-113011	6487648	TB	5030B	8015M	III
30-Nov-2011	TB-113011	6487648	TB	5030B	8260B	III
30-Nov-2011	TB-113011	6487648	TB	5030B	8260B SIM	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3050B	6010B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3050B	6020	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3060A	7199	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8015B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8015M	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8081A	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8082	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8151A	III

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

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	3550B	8270C	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	7471A	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	8015B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	8015M	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5	6487640	N	METHOD	9012B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5DUP	P487640D270958B	DUP	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5DUP	P487640D271829B	DUP	METHOD	9012B	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5MSD	P487640M241515A	MSD	3550B	8082	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5MS	P487640R241456A	MS	3550B	8082	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5MS	P487640R271011B	MS	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SS-0.0-0.5MS	P487640R271830B	MS	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3050B	6020	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3060A	7199	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8081A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8082	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8151A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	8015B	III

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

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5	6487630	N	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3050B	6020	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3060A	7199	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8081A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8082	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8151A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	6487631	MS	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3050B	6020	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8081A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8082	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8151A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	METHOD	7471A	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	6487632	MSD	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	3050B	6020	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	3060A	7199	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5DUP	6487633	DUP	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MSD	P487630M260855	MSD	3550B	8270C SIM	III
30-Nov-2011	SL-283-SA6-SS-0.0-0.5MS	P487630R260824	MS	3550B	8270C SIM	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3050B	6010B	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3050B	6020	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3060A	7199	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3550B	8015B	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3550B	8015M	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3550B	8082	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3550B	8270C	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	3550B	8270C SIM	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	5035	8015M	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	7471A	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	8015B	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	8015M	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0	6487641	N	METHOD	9012B	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-284-SA6-SB-4.0-5.0DUP	P487641D272050B	DUP	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-4.0-5.0MS	P487641R272138B	MS	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3050B	6010B	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3050B	6020	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3060A	7199	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3550B	8015B	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3550B	8015M	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3550B	8082	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3550B	8270C	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	3550B	8270C SIM	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	5035	8015M	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	7471A	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	8015B	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	8015M	III
30-Nov-2011	SL-284-SA6-SB-9.0-10.0	6487642	N	METHOD	9012B	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3050B	6010B	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3050B	6020	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3060A	7199	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3550B	8015B	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3550B	8015M	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3550B	8082	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3550B	8270C	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	3550B	8270C SIM	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	5035	8015M	III

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FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	7471A	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	8015B	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	8015M	III
30-Nov-2011	SL-284-SA6-SB-14.0-15.0	6487643	N	METHOD	9012B	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3050B	6010B	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3050B	6020	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3060A	7199	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3550B	8015B	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3550B	8015M	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3550B	8082	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3550B	8270C	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	3550B	8270C SIM	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	5035	8015M	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	300.0	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	314.0	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	7471A	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	8015B	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	8015M	III
30-Nov-2011	SL-284-SA6-SB-15.5-16.5	6487644	N	METHOD	9012B	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3050B	6010B	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3050B	6020	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3060A	7199	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8015B	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8015M	III

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MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8081A	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8082	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8151A	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8270C	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	3550B	8270C SIM	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	300.0	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	314.0	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	7471A	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	8015B	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	8015M	III
30-Nov-2011	SL-282-SA6-SS-0.0-0.5	6487628	N	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3050B	6020	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3060A	7199	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3550B	8082	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	3550B	8270C SIM	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	5035	8015M	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SB-4.0-5.0	6487636	N	METHOD	9012B	III

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## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3050B	6020	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3060A	7199	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3550B	8082	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	3550B	8270C SIM	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	5035	8015M	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SB-9.0-10.0	6487637	N	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3050B	6020	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3060A	7199	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3550B	8082	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	5035	8015M	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	7471A	III

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MSD = Matrix Spike Duplicate



## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SB-14.0-15.0	6487638	N	METHOD	9012B	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3050B	6010B	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3050B	6020	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3060A	7199	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3546	1625C	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3550B	8015B	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3550B	8015M	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3550B	8082	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3550B	8270C	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	3550B	8270C SIM	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	5035	8015M	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	8330	8330A	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	300.0	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	314.0	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	7471A	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	8015B	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	8015M	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	8315A	III
30-Nov-2011	SL-283-SA6-SB-18.0-19.0	6487639	N	METHOD	9012B	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3050B	6010B	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3050B	6020	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3060A	7199	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3550B	8015B	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3550B	8015M	III

III = EPA Level 3 Data Review  
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MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3550B	8082	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3550B	8270C	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	3550B	8270C SIM	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	5035	8015M	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	300.0	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	314.0	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	7471A	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	8015B	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	8015M	III
30-Nov-2011	SL-282-SA6-SB-2.5-3.5	6487629	N	METHOD	9012B	III
30-Nov-2011	EB-SA6-SB-113011	6487645	EB	3520C	1625C	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 300.0

**Matrix:** SO

**Sample ID:** SL-284-SA6-SB-14.0-15.0

**Collected:** 11/30/2011 10:50:00

**Analysis Type:** RES

**Dilution:** 1

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

**Sample ID:** SL-284-SA6-SB-15.5-16.5

**Collected:** 11/30/2011 10:55:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	1.1	J	0.92	MDL	1.2	PQL	mg/Kg	J	Z, Q

**Sample ID:** SL-284-SA6-SB-4.0-5.0

**Collected:** 11/30/2011 10:40:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	3.9		0.88	MDL	1.1	PQL	mg/Kg	J	Q

**Sample ID:** SL-284-SA6-SB-9.0-10.0

**Collected:** 11/30/2011 10:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	0.84	U	0.84	MDL	1.0	PQL	mg/Kg	UJ	Q

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORIDE	2.6		0.88	MDL	1.1	PQL	mg/Kg	J	Q

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

**Sample ID:** SL-282-SA6-SB-2.5-3.5

**Collected:** 11/30/2011 3:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	541		0.392	MDL	11.2	PQL	mg/Kg	J	Q
TIN	3.51	J	0.358	MDL	11.2	PQL	mg/Kg	U	B

**Sample ID:** SL-282-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 12:35:00

**Analysis Type:** REA

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.47	J	0.479	MDL	5.20	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

**Sample ID:** SL-282-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 12:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	503		0.364	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.65	J	0.333	MDL	10.4	PQL	mg/Kg	U	B

**Sample ID:** SL-283-SA6-SB-14.0-15.0

**Collected:** 11/30/2011 1:20:00

**Analysis Type:** REA

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.66	J	0.495	MDL	5.38	PQL	mg/Kg	J	Z

**Sample ID:** SL-283-SA6-SB-14.0-15.0

**Collected:** 11/30/2011 1:20:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.22	J	0.387	MDL	5.38	PQL	mg/Kg	J	Z
PHOSPHORUS	150		0.377	MDL	10.8	PQL	mg/Kg	J	Q
SODIUM	85.9	J	6.40	MDL	108	PQL	mg/Kg	J	Z
TIN	2.70	J	0.344	MDL	10.8	PQL	mg/Kg	U	B

**Sample ID:** SL-283-SA6-SB-18.0-19.0

**Collected:** 11/30/2011 1:25:00

**Analysis Type:** REA

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.38	J	0.503	MDL	5.47	PQL	mg/Kg	J	Z

**Sample ID:** SL-283-SA6-SB-18.0-19.0

**Collected:** 11/30/2011 1:25:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.19	J	0.394	MDL	5.47	PQL	mg/Kg	J	Z
PHOSPHORUS	348		0.383	MDL	10.9	PQL	mg/Kg	J	Q
TIN	2.82	J	0.350	MDL	10.9	PQL	mg/Kg	U	B

**Sample ID:** SL-283-SA6-SB-4.0-5.0

**Collected:** 11/30/2011 1:10:00

**Analysis Type:** REA

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	4.28	J	0.475	MDL	5.16	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: METALS

Method: 6010B

Matrix: SO

Sample ID: SL-283-SA6-SB-4.0-5.0

Collected: 11/30/2011 1:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	391		0.361	MDL	10.3	PQL	mg/Kg	J	Q
TIN	2.61	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

Sample ID: SL-283-SA6-SB-9.0-10.0

Collected: 11/30/2011 1:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.56	J	0.493	MDL	5.36	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-9.0-10.0

Collected: 11/30/2011 1:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.80	J	0.386	MDL	5.36	PQL	mg/Kg	J	Z
PHOSPHORUS	352		0.375	MDL	10.7	PQL	mg/Kg	J	Q
SODIUM	96.3	J	6.38	MDL	107	PQL	mg/Kg	J	Z
TIN	2.62	J	0.343	MDL	10.7	PQL	mg/Kg	U	B

Sample ID: SL-283-SA6-SS-0.0-0.5

Collected: 11/30/2011 10:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.24	J	0.480	MDL	5.22	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SS-0.0-0.5

Collected: 11/30/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.88	J	0.376	MDL	5.22	PQL	mg/Kg	J	Z
PHOSPHORUS	392		0.365	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.71	J	0.334	MDL	10.4	PQL	mg/Kg	U	B

Sample ID: SL-284-SA6-SB-14.0-15.0

Collected: 11/30/2011 10:50:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.65	J	0.512	MDL	5.56	PQL	mg/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

**Sample ID:** SL-284-SA6-SB-14.0-15.0

**Collected:** 11/30/2011 10:50:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.36	J	0.400	MDL	5.56	PQL	mg/Kg	J	Z
PHOSPHORUS	304		0.389	MDL	11.1	PQL	mg/Kg	J	Q
TIN	2.94	J	0.356	MDL	11.1	PQL	mg/Kg	U	B

**Sample ID:** SL-284-SA6-SB-15.5-16.5

**Collected:** 11/30/2011 10:55:00

**Analysis Type:** REA

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.96	J	0.505	MDL	5.49	PQL	mg/Kg	U	B

**Sample ID:** SL-284-SA6-SB-15.5-16.5

**Collected:** 11/30/2011 10:55:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.71	J	0.395	MDL	5.49	PQL	mg/Kg	J	Z
PHOSPHORUS	201		0.384	MDL	11.0	PQL	mg/Kg	J	Q
TIN	2.73	J	0.351	MDL	11.0	PQL	mg/Kg	U	B

**Sample ID:** SL-284-SA6-SB-4.0-5.0

**Collected:** 11/30/2011 10:40:00

**Analysis Type:** REA

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.74	J	0.499	MDL	5.42	PQL	mg/Kg	U	B

**Sample ID:** SL-284-SA6-SB-4.0-5.0

**Collected:** 11/30/2011 10:40:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	4.67	J	0.390	MDL	5.42	PQL	mg/Kg	J	Z
PHOSPHORUS	330		0.380	MDL	10.8	PQL	mg/Kg	J	Q
TIN	2.60	J	0.347	MDL	10.8	PQL	mg/Kg	U	B

**Sample ID:** SL-284-SA6-SB-9.0-10.0

**Collected:** 11/30/2011 10:45:00

**Analysis Type:** REA

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	3.18	J	0.475	MDL	5.16	PQL	mg/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

**Sample ID:** SL-284-SA6-SB-9.0-10.0

**Collected:** 11/30/2011 10:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.80	J	0.371	MDL	5.16	PQL	mg/Kg	J	Z
PHOSPHORUS	361		0.361	MDL	10.3	PQL	mg/Kg	J	Q
TIN	2.58	J	0.330	MDL	10.3	PQL	mg/Kg	U	B

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** REA

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.39	J	0.499	MDL	5.42	PQL	mg/Kg	U	B

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	5.40	J	0.390	MDL	5.42	PQL	mg/Kg	J	Z
PHOSPHORUS	473		0.380	MDL	10.8	PQL	mg/Kg	J	Q
TIN	11.5		0.347	MDL	10.8	PQL	mg/Kg	J	FD

**Sample ID:** SL-285-SA6-SB-4.0-5.0

**Collected:** 11/29/2011 3:25:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.18	J	0.364	MDL	5.05	PQL	mg/Kg	J	Z
PHOSPHORUS	344		0.354	MDL	10.1	PQL	mg/Kg	J	Q
SODIUM	83.0	J	6.01	MDL	101	PQL	mg/Kg	J	Z
TIN	2.60	J	0.323	MDL	10.1	PQL	mg/Kg	U	B

**Sample ID:** SL-285-SA6-SB-6.0-7.0

**Collected:** 11/29/2011 3:35:00

**Analysis Type:** REA3

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	320		0.358	MDL	10.2	PQL	mg/Kg	J	Q
TIN	2.71	J	0.327	MDL	10.2	PQL	mg/Kg	U	B

**Sample ID:** SL-285-SA6-SB-6.0-7.0

**Collected:** 11/29/2011 3:35:00

**Analysis Type:** REA4

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.36	J	0.470	MDL	5.11	PQL	mg/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6010B

**Matrix:** SO

Sample ID: SL-285-SA6-SS-0.0-0.5

Collected: 11/29/2011 1:35:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	2.36	J	0.476	MDL	5.18	PQL	mg/Kg	J	Z

Sample ID: SL-285-SA6-SS-0.0-0.5

Collected: 11/29/2011 1:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
PHOSPHORUS	375		0.362	MDL	10.4	PQL	mg/Kg	J	Q
TIN	2.95	J	0.331	MDL	10.4	PQL	mg/Kg	U	B

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-282-SA6-SB-2.5-3.5

Collected: 11/30/2011 3:45:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.186	J	0.0630	MDL	0.435	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-282-SA6-SB-2.5-3.5

Collected: 11/30/2011 3:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.868		0.0543	MDL	0.109	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-282-SA6-SB-2.5-3.5

Collected: 11/30/2011 3:45:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.115	MDL	0.435	PQL	mg/Kg	J	E, E

Sample ID: SL-282-SA6-SB-2.5-3.5

Collected: 11/30/2011 3:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.123	J	0.0804	MDL	0.217	PQL	mg/Kg	UJ	Q, B
ARSENIC	10.3		0.0869	MDL	0.435	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.09		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E
CADMIUM	0.0657	J	0.0478	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	27.4		0.130	MDL	0.435	PQL	mg/Kg	J	Q, E, A
COBALT	10.9		0.0217	MDL	0.109	PQL	mg/Kg	J	Q, E, A

\* denotes a non-reportable result

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-282-SA6-SB-2.5-3.5

Collected: 11/30/2011 3:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
COPPER	11.9		0.0869	MDL	0.435	PQL	mg/Kg	J	Q, E, E
LEAD	8.41		0.0111	MDL	0.217	PQL	mg/Kg	J	Q, E, E
NICKEL	17.1		0.109	MDL	0.435	PQL	mg/Kg	J	Q, E
SILVER	0.0317	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.636		0.0326	MDL	0.109	PQL	mg/Kg	J	Q, E
VANADIUM	59.4		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	87.7		0.608	MDL	3.26	PQL	mg/Kg	J	E, A

Sample ID: SL-282-SA6-SS-0.0-0.5

Collected: 11/30/2011 12:35:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.115	J	0.0610	MDL	0.420	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-282-SA6-SS-0.0-0.5

Collected: 11/30/2011 12:35:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.549		0.0526	MDL	0.105	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-282-SA6-SS-0.0-0.5

Collected: 11/30/2011 12:35:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.111	MDL	0.420	PQL	mg/Kg	J	E, E

Sample ID: SL-282-SA6-SS-0.0-0.5

Collected: 11/30/2011 12:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0943	J	0.0778	MDL	0.210	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.60		0.0841	MDL	0.420	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.529		0.0168	MDL	0.105	PQL	mg/Kg	J	Q, E
CADMIUM	0.396		0.0462	MDL	0.105	PQL	mg/Kg	J	Q, E
CHROMIUM	20.1		0.126	MDL	0.420	PQL	mg/Kg	J	Q, E, A
COBALT	9.17		0.0210	MDL	0.105	PQL	mg/Kg	J	Q, E, A
COPPER	15.5		0.0841	MDL	0.420	PQL	mg/Kg	J	Q, E, E
LEAD	8.35		0.0107	MDL	0.210	PQL	mg/Kg	J	Q, E, E
NICKEL	14.5		0.105	MDL	0.420	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5

Collected: 11/30/2011 12:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0579	J	0.0149	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.281		0.0315	MDL	0.105	PQL	mg/Kg	J	Q, E
VANADIUM	41.5		0.0231	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	103		0.589	MDL	3.15	PQL	mg/Kg	J	E, A

Sample ID: SL-283-SA6-SB-14.0-15.0

Collected: 11/30/2011 1:20:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	23.6		0.129	MDL	0.430	PQL	mg/Kg	J	Q, E, A
VANADIUM	44.1		0.0237	MDL	0.108	PQL	mg/Kg	J	Q, E

Sample ID: SL-283-SA6-SB-14.0-15.0

Collected: 11/30/2011 1:20:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.667		0.0538	MDL	0.108	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-283-SA6-SB-14.0-15.0

Collected: 11/30/2011 1:20:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	84.4		0.114	MDL	0.430	PQL	mg/Kg	J	E, E

Sample ID: SL-283-SA6-SB-14.0-15.0

Collected: 11/30/2011 1:20:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0796	U	0.0796	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	4.08		0.0861	MDL	0.430	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.686		0.0172	MDL	0.108	PQL	mg/Kg	J	Q, E
CADMIUM	0.0474	U	0.0474	MDL	0.108	PQL	mg/Kg	UJ	E
COBALT	5.73		0.0215	MDL	0.108	PQL	mg/Kg	J	Q, E, A
COPPER	7.10		0.0861	MDL	0.430	PQL	mg/Kg	J	Q, E, E
LEAD	4.80		0.0110	MDL	0.215	PQL	mg/Kg	J	Q, E, E
NICKEL	11.3		0.108	MDL	0.430	PQL	mg/Kg	J	Q, E
SILVER	0.0306	J	0.0153	MDL	0.108	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.271		0.0323	MDL	0.108	PQL	mg/Kg	J	Q, E
ZINC	45.2		0.603	MDL	3.23	PQL	mg/Kg	J	E, A

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

**Sample ID:** SL-283-SA6-SB-18.0-19.0

**Collected:** 11/30/2011 1:25:00

**Analysis Type:** REA3

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0660	J	0.0622	MDL	0.429	PQL	mg/Kg	UJ	Q, B

**Sample ID:** SL-283-SA6-SB-18.0-19.0

**Collected:** 11/30/2011 1:25:00

**Analysis Type:** REA4

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.428		0.0536	MDL	0.107	PQL	mg/Kg	J	Q, E, E

**Sample ID:** SL-283-SA6-SB-18.0-19.0

**Collected:** 11/30/2011 1:25:00

**Analysis Type:** REA5

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	79.7		0.114	MDL	0.429	PQL	mg/Kg	J	E, E

**Sample ID:** SL-283-SA6-SB-18.0-19.0

**Collected:** 11/30/2011 1:25:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0794	U	0.0794	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	5.07		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.749		0.0172	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0472	U	0.0472	MDL	0.107	PQL	mg/Kg	UJ	E
CHROMIUM	21.4		0.129	MDL	0.429	PQL	mg/Kg	J	Q, E, A
COBALT	4.96		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E, A
COPPER	8.00		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E, E
LEAD	4.29		0.0109	MDL	0.215	PQL	mg/Kg	J	Q, E, E
NICKEL	9.71		0.107	MDL	0.429	PQL	mg/Kg	J	Q, E
SILVER	0.0730	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.251		0.0322	MDL	0.107	PQL	mg/Kg	J	Q, E
VANADIUM	40.4		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	49.4		0.601	MDL	3.22	PQL	mg/Kg	J	E, A

**Sample ID:** SL-283-SA6-SB-4.0-5.0

**Collected:** 11/30/2011 1:10:00

**Analysis Type:** REA

**Dilution:** 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	5.09		0.0271	MDL	0.532	PQL	mg/Kg	J	Q, E, E
THALLIUM	0.292		0.0798	MDL	0.266	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-283-SA6-SB-4.0-5.0

Collected: 11/30/2011 1:10:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	22.2		0.128	MDL	0.425	PQL	mg/Kg	J	Q, E, A
VANADIUM	43.9		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, E

Sample ID: SL-283-SA6-SB-4.0-5.0

Collected: 11/30/2011 1:10:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.138	J	0.0617	MDL	0.425	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-283-SA6-SB-4.0-5.0

Collected: 11/30/2011 1:10:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.678		0.0532	MDL	0.106	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-283-SA6-SB-4.0-5.0

Collected: 11/30/2011 1:10:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	111		0.113	MDL	0.425	PQL	mg/Kg	J	E, E

Sample ID: SL-283-SA6-SB-4.0-5.0

Collected: 11/30/2011 1:10:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0787	U	0.0787	MDL	0.213	PQL	mg/Kg	UJ	Q
ARSENIC	5.20		0.0851	MDL	0.425	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.918		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.0973	J	0.0468	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
COBALT	7.04		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E, A
COPPER	9.83		0.0851	MDL	0.425	PQL	mg/Kg	J	Q, E, E
NICKEL	14.5		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E
SILVER	0.0307	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
ZINC	60.6		0.596	MDL	3.19	PQL	mg/Kg	J	E, A

Sample ID: SL-283-SA6-SB-9.0-10.0

Collected: 11/30/2011 1:15:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0701	J	0.0622	MDL	0.429	PQL	mg/Kg	UJ	Q, B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

**Sample ID:** SL-283-SA6-SB-9.0-10.0

**Collected:** 11/30/2011 1:15:00

**Analysis Type:** REA4

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.923		0.0536	MDL	0.107	PQL	mg/Kg	J	Q, E, E

**Sample ID:** SL-283-SA6-SB-9.0-10.0

**Collected:** 11/30/2011 1:15:00

**Analysis Type:** REA5

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	114		0.114	MDL	0.429	PQL	mg/Kg	J	E, E

**Sample ID:** SL-283-SA6-SB-9.0-10.0

**Collected:** 11/30/2011 1:15:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0794	U	0.0794	MDL	0.215	PQL	mg/Kg	UJ	Q
ARSENIC	5.99		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.724		0.0172	MDL	0.107	PQL	mg/Kg	J	Q, E
CADMIUM	0.0658	J	0.0472	MDL	0.107	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	24.4		0.129	MDL	0.429	PQL	mg/Kg	J	Q, E, A
COBALT	7.21		0.0215	MDL	0.107	PQL	mg/Kg	J	Q, E, A
COPPER	7.97		0.0858	MDL	0.429	PQL	mg/Kg	J	Q, E, E
LEAD	5.89		0.0109	MDL	0.215	PQL	mg/Kg	J	Q, E, E
NICKEL	14.5		0.107	MDL	0.429	PQL	mg/Kg	J	Q, E
SILVER	0.0544	J	0.0152	MDL	0.107	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.300		0.0322	MDL	0.107	PQL	mg/Kg	J	Q, E
VANADIUM	50.2		0.0236	MDL	0.107	PQL	mg/Kg	J	Q, E
ZINC	50.6		0.601	MDL	3.22	PQL	mg/Kg	J	E, A

**Sample ID:** SL-283-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 10:00:00

**Analysis Type:** REA3

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.273	J	0.0594	MDL	0.410	PQL	mg/Kg	UJ	Q, B

**Sample ID:** SL-283-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 10:00:00

**Analysis Type:** REA4

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.975		0.0512	MDL	0.102	PQL	mg/Kg	J	Q, E, E

\* denotes a non-reportable result

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-283-SA6-SS-0.0-0.5

Collected: 11/30/2011 10:00:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	109		0.109	MDL	0.410	PQL	mg/Kg	J	E, E

Sample ID: SL-283-SA6-SS-0.0-0.5

Collected: 11/30/2011 10:00:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.122	J	0.0758	MDL	0.205	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.49		0.0819	MDL	0.410	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.509		0.0164	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.245		0.0451	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	19.1		0.123	MDL	0.410	PQL	mg/Kg	J	Q, E, A
COBALT	7.17		0.0205	MDL	0.102	PQL	mg/Kg	J	Q, E, A
COPPER	12.7		0.0819	MDL	0.410	PQL	mg/Kg	J	Q, E, E
LEAD	10.9		0.0104	MDL	0.205	PQL	mg/Kg	J	Q, E, E
NICKEL	13.2		0.102	MDL	0.410	PQL	mg/Kg	J	Q, E
SILVER	0.0524	J	0.0145	MDL	0.102	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.263		0.0307	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	40.3		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, E
ZINC	73.5		0.573	MDL	3.07	PQL	mg/Kg	J	E, A

Sample ID: SL-284-SA6-SB-14.0-15.0

Collected: 11/30/2011 10:50:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0673	J	0.0652	MDL	0.449	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-284-SA6-SB-14.0-15.0

Collected: 11/30/2011 10:50:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.44		0.0562	MDL	0.112	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-284-SA6-SB-14.0-15.0

Collected: 11/30/2011 10:50:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	149		0.119	MDL	0.449	PQL	mg/Kg	J	E, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

**Sample ID:** SL-284-SA6-SB-14.0-15.0

**Collected:** 11/30/2011 10:50:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0831	U	0.0831	MDL	0.225	PQL	mg/Kg	UJ	Q
ARSENIC	5.93		0.0899	MDL	0.449	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.10		0.0180	MDL	0.112	PQL	mg/Kg	J	Q, E
CADMIUM	0.0494	U	0.0494	MDL	0.112	PQL	mg/Kg	UJ	E
CHROMIUM	27.9		0.135	MDL	0.449	PQL	mg/Kg	J	Q, E, A
COBALT	7.54		0.0225	MDL	0.112	PQL	mg/Kg	J	Q, E, A
COPPER	8.46		0.0899	MDL	0.449	PQL	mg/Kg	J	Q, E, E
LEAD	8.32		0.0115	MDL	0.225	PQL	mg/Kg	J	Q, E, E
NICKEL	14.5		0.112	MDL	0.449	PQL	mg/Kg	J	Q, E
SILVER	0.0721	J	0.0160	MDL	0.112	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.396		0.0337	MDL	0.112	PQL	mg/Kg	J	Q, E
VANADIUM	53.1		0.0247	MDL	0.112	PQL	mg/Kg	J	Q, E
ZINC	67.1		0.629	MDL	3.37	PQL	mg/Kg	J	E, A

**Sample ID:** SL-284-SA6-SB-15.5-16.5

**Collected:** 11/30/2011 10:55:00

**Analysis Type:** REA3

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0750	J	0.0631	MDL	0.435	PQL	mg/Kg	UJ	Q, B

**Sample ID:** SL-284-SA6-SB-15.5-16.5

**Collected:** 11/30/2011 10:55:00

**Analysis Type:** REA4

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.14		0.0544	MDL	0.109	PQL	mg/Kg	J	Q, E, E

**Sample ID:** SL-284-SA6-SB-15.5-16.5

**Collected:** 11/30/2011 10:55:00

**Analysis Type:** REA5

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	142		0.115	MDL	0.435	PQL	mg/Kg	J	E, E

**Sample ID:** SL-284-SA6-SB-15.5-16.5

**Collected:** 11/30/2011 10:55:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0912	J	0.0805	MDL	0.218	PQL	mg/Kg	UJ	Q, B
ARSENIC	6.37		0.0870	MDL	0.435	PQL	mg/Kg	J	Q, E
BERYLLIUM	1.09		0.0174	MDL	0.109	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-284-SA6-SB-15.5-16.5

Collected: 11/30/2011 10:55:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CADMIUM	0.0704	J	0.0479	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	27.8		0.131	MDL	0.435	PQL	mg/Kg	J	Q, E, A
COBALT	8.45		0.0218	MDL	0.109	PQL	mg/Kg	J	Q, E, A
COPPER	8.82		0.0870	MDL	0.435	PQL	mg/Kg	J	Q, E, E
LEAD	8.62		0.0111	MDL	0.218	PQL	mg/Kg	J	Q, E, E
NICKEL	17.1		0.109	MDL	0.435	PQL	mg/Kg	J	Q, E
SILVER	0.0759	J	0.0154	MDL	0.109	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.373		0.0326	MDL	0.109	PQL	mg/Kg	J	Q, E
VANADIUM	55.3		0.0239	MDL	0.109	PQL	mg/Kg	J	Q, E
ZINC	71.4		0.609	MDL	3.26	PQL	mg/Kg	J	E, A

Sample ID: SL-284-SA6-SB-4.0-5.0

Collected: 11/30/2011 10:40:00

Analysis Type: REA

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.717		0.0169	MDL	0.105	PQL	mg/Kg	J	Q, E

Sample ID: SL-284-SA6-SB-4.0-5.0

Collected: 11/30/2011 10:40:00

Analysis Type: REA3

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.119	J	0.0611	MDL	0.421	PQL	mg/Kg	UJ	Q, B

Sample ID: SL-284-SA6-SB-4.0-5.0

Collected: 11/30/2011 10:40:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.551		0.0527	MDL	0.105	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-284-SA6-SB-4.0-5.0

Collected: 11/30/2011 10:40:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.112	MDL	0.421	PQL	mg/Kg	J	E, E

Sample ID: SL-284-SA6-SB-4.0-5.0

Collected: 11/30/2011 10:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0779	U	0.0779	MDL	0.211	PQL	mg/Kg	UJ	Q

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-284-SA6-SB-4.0-5.0

Collected: 11/30/2011 10:40:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ARSENIC	5.65		0.0843	MDL	0.421	PQL	mg/Kg	J	Q, E
CADMIUM	0.0735	J	0.0463	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	23.4		0.126	MDL	0.421	PQL	mg/Kg	J	Q, E, A
COBALT	7.46		0.0211	MDL	0.105	PQL	mg/Kg	J	Q, E, A
COPPER	9.18		0.0843	MDL	0.421	PQL	mg/Kg	J	Q, E, E
LEAD	5.89		0.0107	MDL	0.211	PQL	mg/Kg	J	Q, E, E
NICKEL	13.6		0.105	MDL	0.421	PQL	mg/Kg	J	Q, E
SILVER	0.0335	J	0.0150	MDL	0.105	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.339		0.0316	MDL	0.105	PQL	mg/Kg	J	Q, E
VANADIUM	47.0		0.0232	MDL	0.105	PQL	mg/Kg	J	Q, E
ZINC	72.5		0.590	MDL	3.16	PQL	mg/Kg	J	E, A

Sample ID: SL-284-SA6-SB-9.0-10.0

Collected: 11/30/2011 10:45:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.391		0.0511	MDL	0.102	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-284-SA6-SB-9.0-10.0

Collected: 11/30/2011 10:45:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	87.7		0.108	MDL	0.409	PQL	mg/Kg	J	E, E

Sample ID: SL-284-SA6-SB-9.0-10.0

Collected: 11/30/2011 10:45:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0756	U	0.0756	MDL	0.204	PQL	mg/Kg	UJ	Q
ARSENIC	5.60		0.0817	MDL	0.409	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.413		0.0163	MDL	0.102	PQL	mg/Kg	J	Q, E
CADMIUM	0.103		0.0450	MDL	0.102	PQL	mg/Kg	J	Q, E
CHROMIUM	17.5		0.123	MDL	0.409	PQL	mg/Kg	J	Q, E, A
COBALT	6.41		0.0204	MDL	0.102	PQL	mg/Kg	J	Q, E, A
COPPER	7.07		0.0817	MDL	0.409	PQL	mg/Kg	J	Q, E, E
LEAD	4.42		0.0104	MDL	0.204	PQL	mg/Kg	J	Q, E, E
NICKEL	10.1		0.102	MDL	0.409	PQL	mg/Kg	J	Q, E
SILVER	0.0145	U	0.0145	MDL	0.102	PQL	mg/Kg	UJ	E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

**Sample ID:** SL-284-SA6-SB-9.0-10.0

**Collected:** 11/30/2011 10:45:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.282		0.0307	MDL	0.102	PQL	mg/Kg	J	Q, E
VANADIUM	34.5		0.0225	MDL	0.102	PQL	mg/Kg	J	Q, E
ZINC	66.5		0.572	MDL	3.07	PQL	mg/Kg	J	E, A

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** REA3

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.635		0.0617	MDL	0.425	PQL	mg/Kg	J	Q

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** REA4

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	3.21		0.0532	MDL	0.106	PQL	mg/Kg	J	Q, E, E

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** REA5

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	121		0.113	MDL	0.425	PQL	mg/Kg	J	E, E

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.116	J	0.0787	MDL	0.213	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.41		0.0851	MDL	0.425	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.641		0.0170	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.272		0.0468	MDL	0.106	PQL	mg/Kg	J	Q, E
CHROMIUM	20.1		0.128	MDL	0.425	PQL	mg/Kg	J	Q, E, A
COBALT	7.10		0.0213	MDL	0.106	PQL	mg/Kg	J	Q, E, A
COPPER	13.0		0.0851	MDL	0.425	PQL	mg/Kg	J	Q, E, E
LEAD	12.9		0.0108	MDL	0.213	PQL	mg/Kg	J	Q, E, E
NICKEL	13.2		0.106	MDL	0.425	PQL	mg/Kg	J	Q, E
SILVER	0.0445	J	0.0151	MDL	0.106	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.238		0.0319	MDL	0.106	PQL	mg/Kg	J	Q, E
VANADIUM	41.2		0.0234	MDL	0.106	PQL	mg/Kg	J	Q, E
ZINC	107		0.595	MDL	3.19	PQL	mg/Kg	J	E, A

\* denotes a non-reportable result

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

**Sample ID:** SL-285-SA6-SB-4.0-5.0

**Collected:** 11/29/2011 3:25:00

**Analysis Type:** REA3

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.0694	J	0.0580	MDL	0.400	PQL	mg/Kg	UJ	Q, B

**Sample ID:** SL-285-SA6-SB-4.0-5.0

**Collected:** 11/29/2011 3:25:00

**Analysis Type:** REA4

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.325		0.0500	MDL	0.100	PQL	mg/Kg	UJ	Q, E, E, B

**Sample ID:** SL-285-SA6-SB-4.0-5.0

**Collected:** 11/29/2011 3:25:00

**Analysis Type:** REA5

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	96.5		0.106	MDL	0.400	PQL	mg/Kg	J	E, E

**Sample ID:** SL-285-SA6-SB-4.0-5.0

**Collected:** 11/29/2011 3:25:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0740	U	0.0740	MDL	0.200	PQL	mg/Kg	UJ	Q
ARSENIC	5.84		0.0800	MDL	0.400	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.484		0.0160	MDL	0.100	PQL	mg/Kg	J	Q, E
CADMIUM	0.0791	J	0.0440	MDL	0.100	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	18.3		0.120	MDL	0.400	PQL	mg/Kg	J	Q, E, A
COBALT	6.38		0.0200	MDL	0.100	PQL	mg/Kg	J	Q, E, A
COPPER	8.08		0.0800	MDL	0.400	PQL	mg/Kg	J	Q, E, E
LEAD	5.93		0.0102	MDL	0.200	PQL	mg/Kg	J	Q, E, E
NICKEL	10.7		0.100	MDL	0.400	PQL	mg/Kg	J	Q, E
SILVER	0.0142	U	0.0142	MDL	0.100	PQL	mg/Kg	UJ	E
THALLIUM	0.286		0.0300	MDL	0.100	PQL	mg/Kg	J	Q, E
VANADIUM	38.8		0.0220	MDL	0.100	PQL	mg/Kg	J	Q, E
ZINC	75.6		0.560	MDL	3.00	PQL	mg/Kg	J	E, A

**Sample ID:** SL-285-SA6-SB-6.0-7.0

**Collected:** 11/29/2011 3:35:00

**Analysis Type:** REA3

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.201	J	0.0604	MDL	0.417	PQL	mg/Kg	UJ	Q, B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

Sample ID: SL-285-SA6-SB-6.0-7.0

Collected: 11/29/2011 3:35:00

Analysis Type: REA4

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	0.671		0.0521	MDL	0.104	PQL	mg/Kg	J	Q, E, E

Sample ID: SL-285-SA6-SB-6.0-7.0

Collected: 11/29/2011 3:35:00

Analysis Type: REA5

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	67.3		0.110	MDL	0.417	PQL	mg/Kg	J	E, E

Sample ID: SL-285-SA6-SB-6.0-7.0

Collected: 11/29/2011 3:35:00

Analysis Type: RES

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.0771	U	0.0771	MDL	0.208	PQL	mg/Kg	UJ	Q
ARSENIC	5.19		0.0833	MDL	0.417	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.544		0.0167	MDL	0.104	PQL	mg/Kg	J	Q, E
CADMIUM	0.0558	J	0.0458	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
CHROMIUM	16.8		0.125	MDL	0.417	PQL	mg/Kg	J	Q, E, A
COBALT	5.79		0.0208	MDL	0.104	PQL	mg/Kg	J	Q, E, A
COPPER	6.31		0.0833	MDL	0.417	PQL	mg/Kg	J	Q, E, E
LEAD	4.56		0.0106	MDL	0.208	PQL	mg/Kg	J	Q, E, E
NICKEL	7.56		0.104	MDL	0.417	PQL	mg/Kg	J	Q, E
SILVER	0.0187	J	0.0148	MDL	0.104	PQL	mg/Kg	J	Z, Q, E
THALLIUM	0.287		0.0313	MDL	0.104	PQL	mg/Kg	J	Q, E
VANADIUM	31.3		0.0229	MDL	0.104	PQL	mg/Kg	J	Q, E
ZINC	81.1		0.583	MDL	3.13	PQL	mg/Kg	J	E, A

Sample ID: SL-285-SA6-SS-0.0-0.5

Collected: 11/29/2011 1:35:00

Analysis Type: REA

Dilution: 5

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
LEAD	91.7		0.0269	MDL	0.528	PQL	mg/Kg	J	Q, E, E
ZINC	173		1.48	MDL	7.92	PQL	mg/Kg	J	E, A

Sample ID: SL-285-SA6-SS-0.0-0.5

Collected: 11/29/2011 1:35:00

Analysis Type: REA2

Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	31.5		0.127	MDL	0.422	PQL	mg/Kg	J	Q, E, A
VANADIUM	43.1		0.0232	MDL	0.106	PQL	mg/Kg	J	Q, E

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 6020

**Matrix:** SO

**Sample ID:** SL-285-SA6-SS-0.0-0.5

**Collected:** 11/29/2011 1:35:00

**Analysis Type:** REA3

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SELENIUM	0.241	J	0.0612	MDL	0.422	PQL	mg/Kg	UJ	Q, B

**Sample ID:** SL-285-SA6-SS-0.0-0.5

**Collected:** 11/29/2011 1:35:00

**Analysis Type:** REA4

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MOLYBDENUM	1.95		0.0528	MDL	0.106	PQL	mg/Kg	J	Q, E, E

**Sample ID:** SL-285-SA6-SS-0.0-0.5

**Collected:** 11/29/2011 1:35:00

**Analysis Type:** REA5

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	90.9		0.112	MDL	0.422	PQL	mg/Kg	J	E, E

**Sample ID:** SL-285-SA6-SS-0.0-0.5

**Collected:** 11/29/2011 1:35:00

**Analysis Type:** RES

**Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.101	J	0.0781	MDL	0.211	PQL	mg/Kg	UJ	Q, B
ARSENIC	4.51		0.0844	MDL	0.422	PQL	mg/Kg	J	Q, E
BERYLLIUM	0.690		0.0169	MDL	0.106	PQL	mg/Kg	J	Q, E
CADMIUM	0.572		0.0464	MDL	0.106	PQL	mg/Kg	J	Q, E
COBALT	6.63		0.0211	MDL	0.106	PQL	mg/Kg	J	Q, E, A
COPPER	42.3		0.0844	MDL	0.422	PQL	mg/Kg	J	Q, E, E
NICKEL	16.2		0.106	MDL	0.422	PQL	mg/Kg	J	Q, E
SILVER	0.164		0.0150	MDL	0.106	PQL	mg/Kg	J	Q, E
THALLIUM	0.275		0.0317	MDL	0.106	PQL	mg/Kg	J	Q, E

**Method Category:** METALS

**Method:** 7199

**Matrix:** SO

**Sample ID:** SL-282-SA6-SB-2.5-3.5

**Collected:** 11/30/2011 3:45:00

**Analysis Type:** RES

**Dilution:** 1

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

\* denotes a non-reportable result

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 7199

**Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5

Collected: 11/30/2011 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.36	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-14.0-15.0

Collected: 11/30/2011 1:20:00

Analysis Type: RES

Dilution: 1

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

Sample ID: SL-283-SA6-SB-4.0-5.0

Collected: 11/30/2011 1:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.65	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SB-9.0-10.0

Collected: 11/30/2011 1:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.20	MDL	1.0	PQL	mg/Kg	J	Z

Sample ID: SL-283-SA6-SS-0.0-0.5

Collected: 11/30/2011 10:00:00

Analysis Type: RES

Dilution: 1

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

Sample ID: SL-284-SA6-SB-14.0-15.0

Collected: 11/30/2011 10:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.23	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA6-SB-15.5-16.5

Collected: 11/30/2011 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.32	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

Sample ID: SL-284-SA6-SB-4.0-5.0

Collected: 11/30/2011 10:40:00

Analysis Type: RES

Dilution: 1

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

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** METALS

**Method:** 7199

**Matrix:** SO

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.33	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

**Sample ID:** SL-285-SA6-SB-6.0-7.0

**Collected:** 11/29/2011 3:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.37	J	0.22	MDL	1.1	PQL	mg/Kg	J	Z

**Sample ID:** SL-285-SA6-SS-0.0-0.5

**Collected:** 11/29/2011 1:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEXAVALENT CHROMIUM	0.58	J	0.21	MDL	1.1	PQL	mg/Kg	J	Z

**Method Category:** METALS

**Method:** 7471A

**Matrix:** SO

**Sample ID:** SL-282-SA6-SB-2.5-3.5

**Collected:** 11/30/2011 3:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0122	J	0.0078	MDL	0.111	PQL	mg/Kg	J	Z

**Sample ID:** SL-284-SA6-SB-14.0-15.0

**Collected:** 11/30/2011 10:50:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0117	J	0.0075	MDL	0.107	PQL	mg/Kg	J	Z

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** RES

**Dilution:** 10

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	2.87		0.0728	MDL	1.04	PQL	mg/Kg	J	FD

\* denotes a non-reportable result

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1625C

**Matrix:** AQ

**Sample ID:** EB-SA6-SB-113011

**Collected:** 11/30/2011 4:00:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	2.65		0.479	MDL	0.958	PQL	ng/L	J	L, S

**Sample ID:** TB-113011

**Collected:** 11/30/2011 8:00:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
N-NITROSODIMETHYLAMINE	0.482	U	0.482	MDL	0.964	PQL	ng/L	UJ	L

**Method Category:** SVOA

**Method:** 8015M

**Matrix:** SO

**Sample ID:** SL-282-SA6-SB-2.5-3.5

**Collected:** 11/30/2011 3:45:00

**Analysis Type:** REA2

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.3	J	0.57	MDL	1.7	PQL	mg/Kg	J	Z

**Sample ID:** SL-283-SA6-SB-14.0-15.0

**Collected:** 11/30/2011 1:20:00

**Analysis Type:** REA2

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C15-C20)	0.56	J	0.47	MDL	1.4	PQL	mg/Kg	J	Z

**Sample ID:** SL-283-SA6-SB-18.0-19.0

**Collected:** 11/30/2011 1:25:00

**Analysis Type:** REA2

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	1.3	J	0.57	MDL	1.7	PQL	mg/Kg	J	Z

**Sample ID:** SL-283-SA6-SB-18.0-19.0

**Collected:** 11/30/2011 1:25:00

**Analysis Type:** RES

**Dilution:** 24.61

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.3	J	0.2	MDL	1.1	PQL	mg/Kg	J	Z

**Sample ID:** SL-283-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 10:00:00

**Analysis Type:** RES

**Dilution:** 1

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

\* denotes a non-reportable result

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 8015M

**Matrix:** SO

**Sample ID:** SL-284-SA6-SB-14.0-15.0

**Collected:** 11/30/2011 10:50:00

**Analysis Type:** REA2

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C30-C40)	0.83	J	0.54	MDL	1.6	PQL	mg/Kg	J	Z

**Sample ID:** SL-284-SA6-SB-4.0-5.0

**Collected:** 11/30/2011 10:40:00

**Analysis Type:** REA2

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.91	J	0.49	MDL	1.5	PQL	mg/Kg	J	Z

**Sample ID:** SL-284-SA6-SB-9.0-10.0

**Collected:** 11/30/2011 10:45:00

**Analysis Type:** REA

**Dilution:** 22.32

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
GASOLINE RANGE ORGANICS (C5-C12)	0.6	J	0.2	MDL	0.9	PQL	mg/Kg	J	Z

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** REA

**Dilution:** 50

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	180		22	MDL	66	PQL	mg/Kg	J	FD
EFH (C30-C40)	800		22	MDL	66	PQL	mg/Kg	J	FD

**Sample ID:** SL-285-SA6-SB-4.0-5.0

**Collected:** 11/29/2011 3:25:00

**Analysis Type:** REA2

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH (C21-C30)	0.84	J	0.52	MDL	1.6	PQL	mg/Kg	J	Z

**Method Category:** SVOA

**Method:** 8081A

**Matrix:** SO

**Sample ID:** SL-282-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 12:35:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDE	0.27	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z
ENDOSULFAN II	0.12	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 8081A

**Matrix:** SO

Sample ID: SL-283-SA6-SS-0.0-0.5

Collected: 11/30/2011 10:00:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
4,4'-DDE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	S
4,4'-DDT	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
ALDRIN	0.070	U	0.070	MDL	0.18	PQL	ug/Kg	R	Q
ALPHA-BHC	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	R	Q
BETA-BHC	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	R	Q
Chlordane	0.85	U	0.85	MDL	3.6	PQL	ug/Kg	UJ	S
DELTA-BHC	0.038	U	0.038	MDL	0.18	PQL	ug/Kg	R	Q
DIELDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
ENDOSULFAN I	0.047	U	0.047	MDL	0.18	PQL	ug/Kg	R	Q
ENDOSULFAN II	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
ENDOSULFAN SULFATE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
ENDRIN	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.22	J	0.070	MDL	0.36	PQL	ug/Kg	J	Z, Q, S
ENDRIN KETONE	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	R	Q
gamma-BHC (Lindane)	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.064	U	0.064	MDL	0.18	PQL	ug/Kg	R	Q
HEPTACHLOR EPOXIDE	0.036	U	0.036	MDL	0.18	PQL	ug/Kg	UJ	Q, S
METHOXYCHLOR	0.36	U	0.36	MDL	1.8	PQL	ug/Kg	UJ	Q, S
MIREX	0.070	U	0.070	MDL	0.36	PQL	ug/Kg	UJ	S
TOXAPHENE	2.3	U	2.3	MDL	7.0	PQL	ug/Kg	UJ	S

Sample ID: SL-284-SA6-SS-0.0-0.5

Collected: 11/30/2011 8:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,4'-DDD	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
4,4'-DDE	0.11	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z, S, FD
4,4'-DDT	0.50	U	0.50	MDL	0.50	PQL	ug/Kg	UJ	S, FD
ALDRIN	0.072	U	0.072	MDL	0.18	PQL	ug/Kg	UJ	S
ALPHA-BHC	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	UJ	S
BETA-BHC	0.066	U	0.066	MDL	0.18	PQL	ug/Kg	UJ	S
Chlordane	0.88	U	0.88	MDL	3.7	PQL	ug/Kg	UJ	S
DELTA-BHC	0.039	U	0.039	MDL	0.18	PQL	ug/Kg	UJ	S
DIELDRIN	0.11	J	0.072	MDL	0.37	PQL	ug/Kg	J	Z, S, FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 8081A

**Matrix:** SO

Sample ID: SL-284-SA6-SS-0.0-0.5

Collected: 11/30/2011 8:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ENDOSULFAN I	0.048	U	0.048	MDL	0.18	PQL	ug/Kg	UJ	S
ENDOSULFAN II	0.11	U	0.11	MDL	0.37	PQL	ug/Kg	UJ	S, FD
ENDOSULFAN SULFATE	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
ENDRIN	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
ENDRIN ALDEHYDE	0.32	U	0.32	MDL	0.37	PQL	ug/Kg	UJ	S, FD
ENDRIN KETONE	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
gamma-BHC (Lindane)	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	UJ	S
HEPTACHLOR	0.066	U	0.066	MDL	0.18	PQL	ug/Kg	UJ	S
HEPTACHLOR EPOXIDE	0.037	U	0.037	MDL	0.18	PQL	ug/Kg	UJ	S
METHOXYCHLOR	0.37	U	0.37	MDL	1.8	PQL	ug/Kg	UJ	S
MIREX	0.072	U	0.072	MDL	0.37	PQL	ug/Kg	UJ	S
TOXAPHENE	2.4	U	2.4	MDL	7.2	PQL	ug/Kg	UJ	S

Sample ID: SL-285-SA6-SS-0.0-0.5

Collected: 11/29/2011 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
HEPTACHLOR EPOXIDE	0.14	J	0.036	MDL	0.18	PQL	ug/Kg	J	Z

**Method Category:** SVOA

**Method:** 8082

**Matrix:** SO

Sample ID: SL-284-SA6-SS-0.0-0.5

Collected: 11/30/2011 8:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	0.36	U	0.36	MDL	1.9	PQL	ug/Kg	UJ	FD
AROCLOR 1260	5.9		0.43	MDL	1.9	PQL	ug/Kg	J	FD
Aroclor 5460	17		1.1	MDL	3.6	PQL	ug/Kg	J	FD

Sample ID: SL-285-SA6-SS-0.0-0.5

Collected: 11/29/2011 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1260	1.6	J	0.42	MDL	1.8	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 8151A

**Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5

Collected: 11/30/2011 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.15	J	0.079	MDL	0.18	PQL	ug/Kg	J	Z
MCPA	100	J	81	MDL	260	PQL	ug/Kg	J	Z
MCPP	110	J	79	MDL	260	PQL	ug/Kg	J	Z

Sample ID: SL-283-SA6-SS-0.0-0.5

Collected: 11/30/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MCPA	110	J	81	MDL	270	PQL	ug/Kg	J	Z

Sample ID: SL-284-SA6-SS-0.0-0.5

Collected: 11/30/2011 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,4,5-TP (Silvex)	0.11	J	0.082	MDL	0.19	PQL	ug/Kg	J	Z
MCPA	340	U	340	MDL	340	PQL	ug/Kg	UJ	FD
MCPP	140	J	82	MDL	270	PQL	ug/Kg	J	Z, FD

**Method Category:** SVOA

**Method:** 8270C

**Matrix:** SO

Sample ID: SL-282-SA6-SS-0.0-0.5

Collected: 11/30/2011 12:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	92	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(A)PYRENE	84	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(B)FLUORANTHENE	110	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(G,H,I)PERYLENE	63	J	18	MDL	180	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	51	J	18	MDL	180	PQL	ug/Kg	J	Z
BIS(2-ETHYLHEXYL)PHTHALATE	140	J	18	MDL	350	PQL	ug/Kg	J	Z
CHRYSENE	84	J	18	MDL	180	PQL	ug/Kg	J	Z
DIBENZO(A,H)ANTHRACENE	24	J	18	MDL	180	PQL	ug/Kg	J	Z
FLUORANTHENE	130	J	18	MDL	180	PQL	ug/Kg	J	Z
INDENO(1,2,3-CD)PYRENE	53	J	18	MDL	180	PQL	ug/Kg	J	Z
PYRENE	140	J	18	MDL	180	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 8270C

Matrix: SO

Sample ID: SL-283-SA6-SB-4.0-5.0

Collected: 11/30/2011 1:10:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	20	J	18	MDL	360	PQL	ug/Kg	J	Z

Sample ID: SL-283-SA6-SS-0.0-0.5

Collected: 11/30/2011 10:00:00

Analysis Type: RES-ACID

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
4,6-DINITRO-2-METHYLPHENOL	1800	U	1800	MDL	5300	PQL	ug/Kg	R	Q
4-NITROPHENOL	1800	U	1800	MDL	5300	PQL	ug/Kg	R	Q
ANILINE	1800	U	1800	MDL	5300	PQL	ug/Kg	R	Q
BENZIDINE	12000	U	12000	MDL	35000	PQL	ug/Kg	R	Q
BENZOIC ACID	1800	U	1800	MDL	5300	PQL	ug/Kg	R	Q
BENZYL ALCOHOL	1800	U	1800	MDL	5300	PQL	ug/Kg	R	Q

Sample ID: SL-284-SA6-SB-14.0-15.0

Collected: 11/30/2011 10:50:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	19	J	19	MDL	370	PQL	ug/Kg	J	Z

Sample ID: SL-284-SA6-SS-0.0-0.5

Collected: 11/30/2011 8:25:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD
BENZO(A)PYRENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD
BENZO(B)FLUORANTHENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD
BENZO(G,H,I)PERYLENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD
BIS(2-ETHYLHEXYL)PHTHALATE	91	U	91	MDL	1800	PQL	ug/Kg	UJ	FD
CHRYSENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD
INDENO(1,2,3-CD)PYRENE	91	U	91	MDL	910	PQL	ug/Kg	UJ	FD

Sample ID: SL-285-SA6-SS-0.0-0.5

Collected: 11/29/2011 1:35:00

Analysis Type: RES-BASE/NEUTRAL

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHTHALATE	21	J	18	MDL	360	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 8270C SIM

**Matrix:** SO

**Sample ID:** SL-283-SA6-SB-18.0-19.0

**Collected:** 11/30/2011 1:25:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Di-n-butylphthalate	11	J	6.6	MDL	20	PQL	ug/Kg	J	Z

**Sample ID:** SL-284-SA6-SB-15.5-16.5

**Collected:** 11/30/2011 10:55:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	1.3	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z
BENZO(K)FLUORANTHENE	1.0	J	0.75	MDL	1.9	PQL	ug/Kg	J	Z

**Sample ID:** SL-285-SA6-SB-6.0-7.0

**Collected:** 11/29/2011 3:35:00

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

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BIS(2-ETHYLHEXYL)PHthalate	8.8	J	6.4	MDL	19	PQL	ug/Kg	J	Z

**Method Category:** SVOA

**Method:** 8315A

**Matrix:** SO

**Sample ID:** SL-285-SA6-SB-6.0-7.0

**Collected:** 11/29/2011 3:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FORMALDEHYDE	810	J	630	MDL	1600	PQL	ug/Kg	J	Z

**Method Category:** VOA

**Method:** 8015B

**Matrix:** SO

**Sample ID:** SL-284-SA6-SS-0.0-0.5

**Collected:** 11/30/2011 8:25:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHANOL	130	J	110	MDL	550	PQL	ug/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** VOA

**Method:** 8260B

**Matrix:** SO

**Sample ID:** SL-285-SA6-SB-4.0-5.0

**Collected:** 11/29/2011 3:25:00

**Analysis Type:** RES

**Dilution:** 0.93

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.19	J	0.12	MDL	3.9	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.5	J	0.23	MDL	3.9	PQL	ug/Kg	U	B
TOLUENE	0.09	J	0.08	MDL	3.9	PQL	ug/Kg	U	B

**Sample ID:** SL-285-SA6-SB-6.0-7.0

**Collected:** 11/29/2011 3:35:00

**Analysis Type:** RES

**Dilution:** 1.06

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.25	J	0.13	MDL	4.5	PQL	ug/Kg	U	B
METHYLENE CHLORIDE	1.7	J	0.27	MDL	4.5	PQL	ug/Kg	U	B
TOLUENE	0.17	J	0.09	MDL	4.5	PQL	ug/Kg	U	B

\* denotes a non-reportable result

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

### Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
*#	Professional Judgment
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
E	Laboratory Duplicate Precision
E	Matrix Spike Precision
FD	Field Duplicate Precision
L	Laboratory Control Spike Lower Estimation
Q	Laboratory Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

\* 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

DE290

# Method Blank Outlier Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 6010B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P33908BB221208	12/8/2011 12:08:00 PM	CALCIUM IRON MAGNESIUM PHOSPHORUS TIN	4.62 mg/Kg 4.80 mg/Kg 4.81 mg/Kg 0.983 mg/Kg 1.52 mg/Kg	SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SS-0.0-0.5
P34108AB220345	12/9/2011 3:45:00 AM	CALCIUM IRON MAGNESIUM PHOSPHORUS STRONTIUM TIN	8.12 mg/Kg 3.17 mg/Kg 4.76 mg/Kg 0.960 mg/Kg 0.0287 mg/Kg 1.33 mg/Kg	SL-285-SA6-SB-6.0-7.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-282-SA6-SB-2.5-3.5(RES)	TIN	3.51 mg/Kg	3.51U mg/Kg
SL-282-SA6-SS-0.0-0.5(RES)	TIN	2.65 mg/Kg	2.65U mg/Kg
SL-283-SA6-SB-14.0-15.0(RES)	TIN	2.70 mg/Kg	2.70U mg/Kg
SL-283-SA6-SB-18.0-19.0(RES)	TIN	2.82 mg/Kg	2.82U mg/Kg
SL-283-SA6-SB-4.0-5.0(RES)	TIN	2.61 mg/Kg	2.61U mg/Kg
SL-283-SA6-SB-9.0-10.0(RES)	TIN	2.62 mg/Kg	2.62U mg/Kg
SL-283-SA6-SS-0.0-0.5(RES)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-284-SA6-SB-14.0-15.0(RES)	TIN	2.94 mg/Kg	2.94U mg/Kg
SL-284-SA6-SB-15.5-16.5(RES)	TIN	2.73 mg/Kg	2.73U mg/Kg
SL-284-SA6-SB-4.0-5.0(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-284-SA6-SB-9.0-10.0(RES)	TIN	2.58 mg/Kg	2.58U mg/Kg
SL-285-SA6-SB-4.0-5.0(RES)	TIN	2.60 mg/Kg	2.60U mg/Kg
SL-285-SA6-SB-6.0-7.0(REA3)	TIN	2.71 mg/Kg	2.71U mg/Kg
SL-285-SA6-SS-0.0-0.5(RES)	TIN	2.95 mg/Kg	2.95U mg/Kg

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

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

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
P33926BB220518B	12/12/2011 5:18:00 AM	SELENIUM	0.0675 mg/Kg	SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0 SL-285-SA6-SS-0.0-0.5
P33926BB221247A	12/8/2011 12:47:00 PM	LEAD ZINC	0.0126 mg/Kg 0.838 mg/Kg	SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0 SL-285-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-282-SA6-SB-2.5-3.5(REA3)	SELENIUM	0.186 mg/Kg	0.186U mg/Kg
SL-282-SA6-SS-0.0-0.5(REA3)	SELENIUM	0.115 mg/Kg	0.115U mg/Kg
SL-283-SA6-SB-18.0-19.0(REA3)	SELENIUM	0.0660 mg/Kg	0.0660U mg/Kg
SL-283-SA6-SB-4.0-5.0(REA3)	SELENIUM	0.138 mg/Kg	0.138U mg/Kg
SL-283-SA6-SB-9.0-10.0(REA3)	SELENIUM	0.0701 mg/Kg	0.0701U mg/Kg
SL-283-SA6-SS-0.0-0.5(REA3)	SELENIUM	0.273 mg/Kg	0.273U mg/Kg
SL-284-SA6-SB-14.0-15.0(REA3)	SELENIUM	0.0673 mg/Kg	0.0673U mg/Kg
SL-284-SA6-SB-15.5-16.5(REA3)	SELENIUM	0.0750 mg/Kg	0.0750U mg/Kg
SL-284-SA6-SB-4.0-5.0(REA3)	SELENIUM	0.119 mg/Kg	0.119U mg/Kg
SL-285-SA6-SB-4.0-5.0(REA3)	SELENIUM	0.0694 mg/Kg	0.0694U mg/Kg
SL-285-SA6-SB-6.0-7.0(REA3)	SELENIUM	0.201 mg/Kg	0.201U mg/Kg
SL-285-SA6-SS-0.0-0.5(REA3)	SELENIUM	0.241 mg/Kg	0.241U mg/Kg

**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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 8260B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VBLKB22B211148A	12/6/2011 11:48:00 AM	1,2,4-TRIMETHYLBENZENE 1,3,5-TRIMETHYLBENZENE CHLOROFORM ETHYLBENZENE m,p-Xylene METHYLENE CHLORIDE N-PROPYLBENZENE O-XYLENE SEC-BUTYLBENZENE TOLUENE	1.9 ug/Kg 0.81 ug/Kg 0.26 ug/Kg 0.27 ug/Kg 1.1 ug/Kg 0.40 ug/Kg 0.28 ug/Kg 0.18 ug/Kg 0.06 ug/Kg 0.08 ug/Kg	SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-285-SA6-SB-4.0-5.0(RES)	CHLOROFORM	0.19 ug/Kg	3.9U ug/Kg
SL-285-SA6-SB-4.0-5.0(RES)	METHYLENE CHLORIDE	1.5 ug/Kg	3.9U ug/Kg
SL-285-SA6-SB-4.0-5.0(RES)	TOLUENE	0.09 ug/Kg	3.9U ug/Kg
SL-285-SA6-SB-6.0-7.0(RES)	CHLOROFORM	0.25 ug/Kg	4.5U ug/Kg
SL-285-SA6-SB-6.0-7.0(RES)	METHYLENE CHLORIDE	1.7 ug/Kg	4.5U ug/Kg
SL-285-SA6-SB-6.0-7.0(RES)	TOLUENE	0.17 ug/Kg	4.5U ug/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 8081A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	4,4'-DDE ENDRIN ENDRIN ALDEHYDE gamma-BHC (Lindane)	- - - -	- - - -	18.00-161.00 11.00-149.00 10.00-148.00 10.00-140.00	69 (50.00) 63 (50.00) 38 (35.00) 72 (50.00)	4,4'-DDE ENDRIN ENDRIN ALDEHYDE gamma-BHC (Lindane)	J (all detects)
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	4,4'-DDD 4,4'-DDT ALDRIN ALPHA-BHC BETA-BHC DELTA-BHC DIELDRIN ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN KETONE HEPTACHLOR	0 0 - 0 - 0 0 0 0 - 0 -	0 0 0 - 0 0 0 - 0 0 0 0	16.00-163.00 10.00-176.00 16.00-126.00 10.00-129.00 14.00-147.00 23.00-140.00 19.00-154.00 16.00-137.00 28.00-154.00 21.00-160.00 22.00-165.00 13.00-126.00	- - 200 (50.00) 200 (50.00) 200 (50.00) - - - 200 (50.00) 200 (50.00) - 200 (50.00)	4,4'-DDD 4,4'-DDT ALDRIN ALPHA-BHC BETA-BHC DELTA-BHC DIELDRIN ENDOSULFAN I ENDOSULFAN II ENDOSULFAN SULFATE ENDRIN KETONE HEPTACHLOR	J(all detects) R(all non-detects)
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	HEPTACHLOR EPOXIDE METHOXYCHLOR	- 29	12 21	13.00-157.00 32.00-147.00	104 (50.00) -	HEPTACHLOR EPOXIDE METHOXYCHLOR	J(all detects) UJ(all non-detects)

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	0 0 147 -4209 0	0 0 -288 -3930 0	49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00 49.00-123.00	- - - - -	EFH (C12-C14) EFH (C15-C20) EFH (C21-C30) EFH (C30-C40) EFH (C8-C11)	No Qual, Diluted Out

Method: 8151A

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	MCPP	-	-	10.00-184.00	64 (50.00)	MCPP	J(all detects)

Method: 8015M

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	DIETHYLENE GLYCOL	24	23	59.00-109.00	-	DIETHYLENE GLYCOL	J(all detects) UJ(all non-detects)

## Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290 v1

eQAPP Name: CDM SSFL 110509

**Method:** 8270C

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	PENTACHLOROPHENOL	155	154	28.00-127.00	-	PENTACHLOROPHENOL	J(all detects)
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	4,6-DINITRO-2-METHYLPHENOL	0	0	11.00-126.00	-	4,6-DINITRO-2-METHYLPHEN	J(all detects) R(all non-detects)
	4-NITROPHENOL	0	0	37.00-129.00	-	4-NITROPHENOL	
	ANILINE	0	0	18.00-116.00	-	ANILINE	
	BENZIDINE	0	0	35.00-141.00	-	BENZIDINE	
	BENZOIC ACID	0	0	10.00-173.00	-	BENZOIC ACID	
	BENZYL ALCOHOL	0	0	67.00-115.00	-	BENZYL ALCOHOL	

**Method:** 6020

**Matrix:** SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0 SL-285-SA6-SS-0.0-0.5)	ANTIMONY ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	43 277 204 188 263 191 257 329 256 175 202 348 477	37 165 - 127 155 128 136 - 145 - 136 191 214	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 26 (20.00) 39 (20.00) 35 (20.00) 28 (20.00) 37 (20.00) 39 (20.00) 46 (20.00) 35 (20.00) 35 (20.00) 29 (20.00) 25 (20.00) 26 (20.00)	ANTIMONY ARSENIC BERYLLIUM CADMIUM CHROMIUM COBALT COPPER LEAD NICKEL SILVER THALLIUM VANADIUM ZINC	J(all detects) UJ(all non-detects)
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0 SL-285-SA6-SS-0.0-0.5)	SELENIUM	131	131	75.00-125.00	-	SELENIUM	J(all detects)

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

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0 SL-285-SA6-SS-0.0-0.5)	MOLYBDENUM	179	-	75.00-125.00	35 (20.00)	MOLYBDENUM	J(all detects) UJ(all non-detects)
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0 SL-285-SA6-SS-0.0-0.5)	BARIUM	550	130	75.00-125.00	31 (20.00)	BARIUM	J(all detects) UJ(all non-detects)  No Qual %R, >4x

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SS-0.0-0.5)	ALUMINUM CALCIUM MAGNESIUM PHOSPHORUS TITANIUM	611 287 - 128 168	863 386 200 - 265	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- - - - -	ALUMINUM CALCIUM MAGNESIUM PHOSPHORUS TITANIUM	J(all detects)  Al, Ca, Mg, Ti, No Qual, >4x

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

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SS-0.0-0.5)	IRON MANGANESE	-2297 -31	-1472 6	75.00-125.00 75.00-125.00	- -	IRON MANGANESE	No Qual, >4x

Method: 8270C SIM

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5MS SL-283-SA6-SS-0.0-0.5MSD (SL-283-SA6-SS-0.0-0.5)	2-METHYLNAPHTHALENE ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALAT Butylbenzylphthalate CHRYSENE Diethylphthalate Dimethylphthalate Di-n-butylphthalate NAPHTHALENE	106 118 131 - 192 170 - 154 139 148 - 108	- 118 - 143 208 729 174 152 142 148 167 -	64.00-103.00 73.00-115.00 59.00-128.00 58.00-142.00 54.00-163.00 39.00-167.00 57.00-173.00 48.00-134.00 70.00-136.00 74.00-118.00 65.00-148.00 61.00-102.00	- - - - - 124 (30.00) - - - - - -	2-METHYLNAPHTHALENE ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)PYRENE BENZO(B)FLUORANTHENE BIS(2-ETHYLHEXYL)PHTHALA Butylbenzylphthalate CHRYSENE Diethylphthalate Dimethylphthalate Di-n-butylphthalate NAPHTHALENE	J(all detects)

Method: 6010B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-285-SA6-SB-6.0-7.0MS (SL-285-SA6-SB-6.0-7.0)	ALUMINUM	569	-	75.00-125.00	-	ALUMINUM	No Qual, >4x
SL-285-SA6-SB-6.0-7.0MS SL-285-SA6-SB-6.0-7.0MSD (SL-285-SA6-SB-6.0-7.0)	IRON MAGNESIUM MANGANESE	-1228 17 35	-1709 -136 -5	75.00-125.00 75.00-125.00 75.00-125.00	- - -	IRON MAGNESIUM MANGANESE	No Qual, >4x
SL-285-SA6-SB-6.0-7.0MS SL-285-SA6-SB-6.0-7.0MSD (SL-285-SA6-SB-6.0-7.0)	CALCIUM PHOSPHORUS TITANIUM	169 - 156	67 57 41	75.00-125.00 75.00-125.00 75.00-125.00	- - -	CALCIUM PHOSPHORUS TITANIUM	J(all detects) UJ(all non-detects) Ca, Ti, No Qual, >4x

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-284-SA6-SS-0.0-0.5MS (SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5)	FLUORIDE	76	-	80.00-120.00	-	FLUORIDE	J(all detects) UJ(all non-detects)

# Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-284-SA6-SS-0.0-0.5DUP (SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5)	FLUORIDE	23	20.00	No Qual, OK by Difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-285-SA6-SB-6.0-7.0DUP (SL-285-SA6-SB-6.0-7.0)	Zirconium	31	20.00	No Qual, OK by Difference

Method: 300.0

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-283-SA6-SS-0.0-0.5DUP (SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0 SL-285-SA6-SS-0.0-0.5)	FLUORIDE	21	20.00	No Qual, OK by Difference

Method: 6010B

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-283-SA6-SS-0.0-0.5DUP (SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SS-0.0-0.5)	Zirconium	79	20.00	No Qual, OK by Difference

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

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## Lab Duplicate Outlier Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 6020

Matrix: SO

QC Sample ID (Associated Sample ID)	Analyte	Sample RPD	eQAPP RPD	Flag
SL-283-SA6-SS-0.0-0.5DUP	ANTIMONY	200	20.00	J(all detects) UJ(all non-detects)
SL-282-SA6-SB-2.5-3.5	BARIUM	27	20.00	
SL-282-SA6-SS-0.0-0.5	COPPER	26	20.00	
SL-283-SA6-SB-14.0-15.0	LEAD	50	20.00	
SL-283-SA6-SB-18.0-19.0	MOLYBDENUM	34	20.00	
SL-283-SA6-SB-4.0-5.0	SELENIUM	68	20.00	
SL-283-SA6-SB-9.0-10.0	SILVER	33	20.00	
SL-283-SA6-SS-0.0-0.5	THALLIUM	24	20.00	
SL-284-SA6-SB-14.0-15.0				Sb, Se, Ag, Tl, No Qual, OK by Difference
SL-284-SA6-SB-15.5-16.5				
SL-284-SA6-SB-4.0-5.0				
SL-284-SA6-SB-9.0-10.0				
SL-284-SA6-SS-0.0-0.5				
SL-285-SA6-SB-4.0-5.0				
SL-285-SA6-SB-6.0-7.0				
SL-285-SA6-SS-0.0-0.5				

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 1625C**

**Matrix: AQ**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P0WALCSY261135 (EB-SA6-SB-113011 TB -113011)	N-NITROSODIMETHYLAMINE	-	63	70.00-130.00	-	N-NITROSODIMETHYLAMINE	J(all detects) UJ(all non-detects)

**Method: 6020**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P33926BQ221250A (SL-282-SA6-SB-2.5-3.5 SL-282-SA6-SS-0.0-0.5 SL-283-SA6-SB-14.0-15.0 SL-283-SA6-SB-18.0-19.0 SL-283-SA6-SB-4.0-5.0 SL-283-SA6-SB-9.0-10.0 SL-283-SA6-SS-0.0-0.5 SL-284-SA6-SB-14.0-15.0 SL-284-SA6-SB-15.5-16.5 SL-284-SA6-SB-4.0-5.0 SL-284-SA6-SB-9.0-10.0 SL-284-SA6-SS-0.0-0.5 SL-285-SA6-SB-4.0-5.0 SL-285-SA6-SB-6.0-7.0 SL-285-SA6-SS-0.0-0.5)	ANTIMONY	74	-	80.00-120.00	-	ANTIMONY	No Qual, SRM within Limits

**Method: 6010B**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
P34108AQ220349 (SL-285-SA6-SB-6.0-7.0)	IRON	79	-	80.00-120.00	-	IRON	No Qual, SRM within Limits

# Surrogate Outlier Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1625C

Matrix: AQ

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
EB-SA6-SB-113011	N-Nitrosodimethylamine-d6	244	50.00-150.00	All Target Analytes	J (all detects)

Method: 8081A

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-283-SA6-SS-0.0-0.5	TETRACHLORO-M-XYLENE	20	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)
SL-283-SA6-SS-0.0-0.5RLCS	TETRACHLORO-M-XYLENE	31	50.00-130.00	All Target Analytes	Not Validated
SL-283-SA6-SS-0.0-0.5RLMS	TETRACHLORO-M-XYLENE	37	50.00-130.00	All Target Analytes	Not Validated
SL-284-SA6-SS-0.0-0.5	TETRACHLORO-M-XYLENE	24	50.00-130.00	All Target Analytes	J(all detects) UJ(all non-detects)

Method: 8082

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-282-SA6-SB-2.5-3.5	DECACHLOROBIPHENYL	124	45.00-120.00	All Target Analytes	J(all detects)
SL-283-SA6-SB-4.0-5.0	DECACHLOROBIPHENYL	142	45.00-120.00	All Target Analytes	J(all detects)
SL-284-SA6-SB-15.5-16.5	DECACHLOROBIPHENYL	122	45.00-120.00	All Target Analytes	J(all detects)

Method: 8270C

Matrix: SO

Sample ID	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-284-SA6-SB-15.5-16.5	2,4,6-TRIBROMOPHENOL	33	35.00-130.00	No Affected Compounds	J(all detects) UJ(all non-detects)

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
MOISTURE	8.7	7.500000000	15		No Qualifiers Applied

Method: 300.0

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
FLUORIDE	2.6	1.900000000	31	50.00	No Qualifiers Applied

Method: 6010B

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
ALUMINUM	13200	13000.000000000	2	50.00	No Qualifiers Applied
BORON	5.40	4.710000000	14	50.00	
CALCIUM	4590	4030.000000000	13	50.00	
IRON	22000	19900.000000000	10	50.00	
LITHIUM	19.0	20.300000000	7	50.00	
MAGNESIUM	4180	4380.000000000	5	50.00	
MANGANESE	266	277.000000000	4	50.00	
PHOSPHORUS	473	424.000000000	11	50.00	
POTASSIUM	2370	2470.000000000	4	50.00	
SODIUM	171	215.000000000	23	50.00	
STRONTIUM	26.1	24.100000000	8	50.00	
TITANIUM	963	975.000000000	1	50.00	
Zirconium	2.39	3.080000000	25	50.00	
TIN	11.5	2.460000000	130	50.00	J(all detects)

Method: 6020

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
ANTIMONY	0.116	0.088100000	27	50.00	No Qualifiers Applied
ARSENIC	4.41	4.740000000	7	50.00	
BARIUM	121	104.000000000	15	50.00	
BERYLLIUM	0.641	0.678000000	6	50.00	
CADMIUM	0.272	0.208000000	27	50.00	
CHROMIUM	20.1	21.800000000	8	50.00	
COBALT	7.10	7.020000000	1	50.00	
COPPER	13.0	12.100000000	7	50.00	
LEAD	12.9	11.600000000	11	50.00	
MOLYBDENUM	3.21	2.220000000	36	50.00	
NICKEL	13.2	13.900000000	5	50.00	
SELENIUM	0.635	0.733000000	14	50.00	
SILVER	0.0445	0.039800000	11	50.00	
THALLIUM	0.238	0.292000000	20	50.00	
VANADIUM	41.2	42.400000000	3	50.00	
ZINC	107	126.000000000	16	50.00	

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: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 7199

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
HEXAVALENT CHROMIUM	0.33	0.280000000	16	50.00	No Qualifiers Applied

Method: 7471A

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
MERCURY	2.87	1.620000000	56	50.00	J(all detects)

Method: 8015B

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
METHANOL	130	130.000000000	0	50.00	No Qualifiers Applied

Method: 8015M

Matrix: SO

Analyte	Concentration (mg/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
EFH (C21-C30)	180	60.000000000	100	50.00	J(all detects)
EFH (C30-C40)	800	260.000000000	102	50.00	

Method: 8081A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
4,4'-DDE	0.11	0.370000000 U	200	50.00	J(all detects) JJ(all non-detects)
4,4'-DDT	0.50 U	0.270000000	200	50.00	
DIELDRIN	0.11	0.210000000	62	50.00	
ENDOSULFAN II	0.37 U	0.100000000	200	50.00	
ENDRIN ALDEHYDE	0.37 U	0.240000000	200	50.00	

Method: 8082

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
AROCLOR 1254	1.9 U	6.600000000	200	50.00	J(all detects) JJ(all non-detects)
AROCLOR 1260	5.9	13.000000000	75	50.00	
Aroclor 5460	17	7.400000000	79	50.00	

## Field Duplicate RPD Report

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 8151A

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
2,4,5-TP (Silvex)	0.11	0.096000000	14	50.00	No Qualifiers Applied
MCPA	340 U	140.000000000	200	50.00	J(all detects)
MCPD	140	270.000000000 U	200	50.00	UJ(all non-detects)

Method: 8270C

Matrix: SO

Analyte	Concentration (ug/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
ANTHRACENE	910 U	26.000000000	200	50.00	J(all detects) UJ(all non-detects)
BENZO(A)PYRENE	910 U	21.000000000	200	50.00	
BENZO(B)FLUORANTHENE	910 U	32.000000000	200	50.00	
BENZO(G,H,I)PERYLENE	910 U	83.000000000	200	50.00	
BIS(2-ETHYLHEXYL)PHTHALATE	1800 U	34.000000000	200	50.00	
CHRYSENE	910 U	29.000000000	200	50.00	
INDENO(1,2,3-CD)PYRENE	910 U	50.000000000	200	50.00	

Method: 9045M

Matrix: SO

Analyte	Concentration (pH unit)		Sample RPD	eQAPP RPD	Flag
	SL-284-SA6-SS-0.0-0.5	DUP17-SA6-QC-120111			
PH	8.66	8.750000000	1	50.00	No Qualifiers Applied

# Reporting Limit Outliers

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 300.0

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-284-SA6-SB-15.5-16.5	FLUORIDE	J	1.1	1.2	PQL	mg/Kg	J (all detects)

Method: 6010B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	TIN	J	3.51	11.2	PQL	mg/Kg	J (all detects)
SL-282-SA6-SS-0.0-0.5	TIN	J	2.65	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.47	5.20	PQL	mg/Kg	
SL-283-SA6-SB-14.0-15.0	BORON	J	4.22	5.38	PQL	mg/Kg	J (all detects)
	SODIUM	J	85.9	108	PQL	mg/Kg	
	TIN	J	2.70	10.8	PQL	mg/Kg	
	Zirconium	J	2.66	5.38	PQL	mg/Kg	
SL-283-SA6-SB-18.0-19.0	BORON	J	4.19	5.47	PQL	mg/Kg	J (all detects)
	TIN	J	2.82	10.9	PQL	mg/Kg	
	Zirconium	J	4.38	5.47	PQL	mg/Kg	
SL-283-SA6-SB-4.0-5.0	TIN	J	2.61	10.3	PQL	mg/Kg	J (all detects)
	Zirconium	J	4.28	5.16	PQL	mg/Kg	
SL-283-SA6-SB-9.0-10.0	BORON	J	4.80	5.36	PQL	mg/Kg	J (all detects)
	SODIUM	J	96.3	107	PQL	mg/Kg	
	TIN	J	2.62	10.7	PQL	mg/Kg	
	Zirconium	J	3.56	5.36	PQL	mg/Kg	
SL-283-SA6-SS-0.0-0.5	BORON	J	4.88	5.22	PQL	mg/Kg	J (all detects)
	TIN	J	2.71	10.4	PQL	mg/Kg	
	Zirconium	J	2.24	5.22	PQL	mg/Kg	
SL-284-SA6-SB-14.0-15.0	BORON	J	5.36	5.56	PQL	mg/Kg	J (all detects)
	TIN	J	2.94	11.1	PQL	mg/Kg	
	Zirconium	J	3.65	5.56	PQL	mg/Kg	
SL-284-SA6-SB-15.5-16.5	BORON	J	4.71	5.49	PQL	mg/Kg	J (all detects)
	TIN	J	2.73	11.0	PQL	mg/Kg	
	Zirconium	J	3.96	5.49	PQL	mg/Kg	
SL-284-SA6-SB-4.0-5.0	BORON	J	4.67	5.42	PQL	mg/Kg	J (all detects)
	TIN	J	2.60	10.8	PQL	mg/Kg	
	Zirconium	J	2.74	5.42	PQL	mg/Kg	
SL-284-SA6-SB-9.0-10.0	BORON	J	3.80	5.16	PQL	mg/Kg	J (all detects)
	TIN	J	2.58	10.3	PQL	mg/Kg	
	Zirconium	J	3.18	5.16	PQL	mg/Kg	
SL-284-SA6-SS-0.0-0.5	BORON	J	5.40	5.42	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.39	5.42	PQL	mg/Kg	
SL-285-SA6-SB-4.0-5.0	BORON	J	3.18	5.05	PQL	mg/Kg	J (all detects)
	SODIUM	J	83.0	101	PQL	mg/Kg	
	TIN	J	2.60	10.1	PQL	mg/Kg	
SL-285-SA6-SB-6.0-7.0	TIN	J	2.71	10.2	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.36	5.11	PQL	mg/Kg	
SL-285-SA6-SS-0.0-0.5	TIN	J	2.95	10.4	PQL	mg/Kg	J (all detects)
	Zirconium	J	2.36	5.18	PQL	mg/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	ANTIMONY	J	0.123	0.217	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0657	0.109	PQL	mg/Kg	
	SELENIUM	J	0.186	0.435	PQL	mg/Kg	
	SILVER	J	0.0317	0.109	PQL	mg/Kg	
SL-282-SA6-SS-0.0-0.5	ANTIMONY	J	0.0943	0.210	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.115	0.420	PQL	mg/Kg	
	SILVER	J	0.0579	0.105	PQL	mg/Kg	
SL-283-SA6-SB-14.0-15.0	SILVER	J	0.0306	0.108	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-18.0-19.0	SELENIUM	J	0.0660	0.429	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0730	0.107	PQL	mg/Kg	
SL-283-SA6-SB-4.0-5.0	CADMIUM	J	0.0973	0.106	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.138	0.425	PQL	mg/Kg	
	SILVER	J	0.0307	0.106	PQL	mg/Kg	
SL-283-SA6-SB-9.0-10.0	CADMIUM	J	0.0658	0.107	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0701	0.429	PQL	mg/Kg	
	SILVER	J	0.0544	0.107	PQL	mg/Kg	
SL-283-SA6-SS-0.0-0.5	ANTIMONY	J	0.122	0.205	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.273	0.410	PQL	mg/Kg	
	SILVER	J	0.0524	0.102	PQL	mg/Kg	
SL-284-SA6-SB-14.0-15.0	SELENIUM	J	0.0673	0.449	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0721	0.112	PQL	mg/Kg	
SL-284-SA6-SB-15.5-16.5	ANTIMONY	J	0.0912	0.218	PQL	mg/Kg	J (all detects)
	CADMIUM	J	0.0704	0.109	PQL	mg/Kg	
	SELENIUM	J	0.0750	0.435	PQL	mg/Kg	
	SILVER	J	0.0759	0.109	PQL	mg/Kg	
SL-284-SA6-SB-4.0-5.0	CADMIUM	J	0.0735	0.105	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.119	0.421	PQL	mg/Kg	
	SILVER	J	0.0335	0.105	PQL	mg/Kg	
SL-284-SA6-SS-0.0-0.5	ANTIMONY	J	0.116	0.213	PQL	mg/Kg	J (all detects)
	SILVER	J	0.0445	0.106	PQL	mg/Kg	
SL-285-SA6-SB-4.0-5.0	CADMIUM	J	0.0791	0.100	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.0694	0.400	PQL	mg/Kg	
SL-285-SA6-SB-6.0-7.0	CADMIUM	J	0.0558	0.104	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.201	0.417	PQL	mg/Kg	
	SILVER	J	0.0187	0.104	PQL	mg/Kg	
SL-285-SA6-SS-0.0-0.5	ANTIMONY	J	0.101	0.211	PQL	mg/Kg	J (all detects)
	SELENIUM	J	0.241	0.422	PQL	mg/Kg	

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	HEXAVALENT CHROMIUM	J	0.34	1.1	PQL	mg/Kg	J (all detects)
SL-282-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.36	1.0	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-14.0-15.0	HEXAVALENT CHROMIUM	J	0.52	1.1	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.65	1.1	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-9.0-10.0	HEXAVALENT CHROMIUM	J	0.33	1.0	PQL	mg/Kg	J (all detects)
SL-283-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.32	1.0	PQL	mg/Kg	J (all detects)

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

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# Reporting Limit Outliers

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 7199

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-284-SA6-SB-14.0-15.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-15.5-16.5	HEXAVALENT CHROMIUM	J	0.32	1.1	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-4.0-5.0	HEXAVALENT CHROMIUM	J	0.24	1.1	PQL	mg/Kg	J (all detects)
SL-284-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.33	1.1	PQL	mg/Kg	J (all detects)
SL-285-SA6-SB-6.0-7.0	HEXAVALENT CHROMIUM	J	0.37	1.1	PQL	mg/Kg	J (all detects)
SL-285-SA6-SS-0.0-0.5	HEXAVALENT CHROMIUM	J	0.58	1.1	PQL	mg/Kg	J (all detects)

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	MERCURY	J	0.0122	0.111	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-14.0-15.0	MERCURY	J	0.0117	0.107	PQL	mg/Kg	J (all detects)

Method: 8015B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-284-SA6-SS-0.0-0.5	METHANOL	J	130	550	PQL	ug/Kg	J (all detects)

Method: 8015M

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SB-2.5-3.5	EFH (C21-C30)	J	1.3	1.7	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-14.0-15.0	EFH (C15-C20)	J	0.56	1.4	PQL	mg/Kg	J (all detects)
SL-283-SA6-SB-18.0-19.0	EFH (C21-C30)	J	1.3	1.7	PQL	mg/Kg	J (all detects)
	GASOLINE RANGE ORGANICS (C5-C12)	J	0.3	1.1	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-14.0-15.0	EFH (C30-C40)	J	0.83	1.6	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-4.0-5.0	EFH (C21-C30)	J	0.91	1.5	PQL	mg/Kg	J (all detects)
SL-284-SA6-SB-9.0-10.0	GASOLINE RANGE ORGANICS (C5-C12)	J	0.6	0.9	PQL	mg/Kg	J (all detects)
SL-285-SA6-SB-4.0-5.0	EFH (C21-C30)	J	0.84	1.6	PQL	mg/Kg	J (all detects)

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SS-0.0-0.5	4,4'-DDE	J	0.27	0.36	PQL	ug/Kg	J (all detects)
	ENDOSULFAN II	J	0.12	0.36	PQL	ug/Kg	J (all detects)

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

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ADR version 1.4.0.111

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# Reporting Limit Outliers

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 8081A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-283-SA6-SS-0.0-0.5	ENDRIN ALDEHYDE	J	0.22	0.36	PQL	ug/Kg	J (all detects)
SL-284-SA6-SS-0.0-0.5	4,4'-DDE	J	0.11	0.37	PQL	ug/Kg	J (all detects)
	DIELDRIN	J	0.11	0.37	PQL	ug/Kg	
SL-285-SA6-SS-0.0-0.5	HEPTACHLOR EPOXIDE	J	0.14	0.18	PQL	ug/Kg	J (all detects)

Method: 8082

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-285-SA6-SS-0.0-0.5	AROCLOR 1260	J	1.6	1.8	PQL	ug/Kg	J (all detects)

Method: 8151A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.15	0.18	PQL	ug/Kg	J (all detects)
	MCPA	J	100	260	PQL	ug/Kg	
	MCPP	J	110	260	PQL	ug/Kg	
SL-283-SA6-SS-0.0-0.5	MCPA	J	110	270	PQL	ug/Kg	J (all detects)
SL-284-SA6-SS-0.0-0.5	2,4,5-TP (Silvex)	J	0.11	0.19	PQL	ug/Kg	J (all detects)
	MCPP	J	140	270	PQL	ug/Kg	

Method: 8260B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-285-SA6-SB-4.0-5.0	CHLOROFORM	J	0.19	3.9	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.5	3.9	PQL	ug/Kg	
	TOLUENE	J	0.09	3.9	PQL	ug/Kg	
SL-285-SA6-SB-6.0-7.0	CHLOROFORM	J	0.25	4.5	PQL	ug/Kg	J (all detects)
	METHYLENE CHLORIDE	J	1.7	4.5	PQL	ug/Kg	
	TOLUENE	J	0.17	4.5	PQL	ug/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DE290

Laboratory: LL

EDD Filename: DE290\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 8270C

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-282-SA6-SS-0.0-0.5	BENZO(A)ANTHRACENE	J	92	180	PQL	ug/Kg	J (all detects)
	BENZO(A)PYRENE	J	84	180	PQL	ug/Kg	
	BENZO(B)FLUORANTHENE	J	110	180	PQL	ug/Kg	
	BENZO(G,H,I)PERYLENE	J	63	180	PQL	ug/Kg	
	BENZO(K)FLUORANTHENE	J	51	180	PQL	ug/Kg	
	BIS(2-ETHYLHEXYL)PHTHALATE	J	140	350	PQL	ug/Kg	
	CHRYSENE	J	84	180	PQL	ug/Kg	
	DIBENZO(A,H)ANTHRACENE	J	24	180	PQL	ug/Kg	
	FLUORANTHENE	J	130	180	PQL	ug/Kg	
	INDENO(1,2,3-CD)PYRENE	J	53	180	PQL	ug/Kg	
	PYRENE	J	140	180	PQL	ug/Kg	
SL-283-SA6-SB-4.0-5.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	20	360	PQL	ug/Kg	J (all detects)
SL-284-SA6-SB-14.0-15.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	19	370	PQL	ug/Kg	J (all detects)
SL-285-SA6-SS-0.0-0.5	BIS(2-ETHYLHEXYL)PHTHALATE	J	21	360	PQL	ug/Kg	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-283-SA6-SB-18.0-19.0	Di-n-butylphthalate	J	11	20	PQL	ug/Kg	J (all detects)
SL-284-SA6-SB-15.5-16.5	BENZO(B)FLUORANTHENE	J	1.3	1.9	PQL	ug/Kg	J (all detects)
	BENZO(K)FLUORANTHENE	J	1.0	1.9	PQL	ug/Kg	
SL-285-SA6-SB-6.0-7.0	BIS(2-ETHYLHEXYL)PHTHALATE	J	8.8	19	PQL	ug/Kg	J (all detects)

Method: 8315A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-285-SA6-SB-6.0-7.0	FORMALDEHYDE	J	810	1600	PQL	ug/Kg	J (all detects)

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

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

	Validation Area		Comments
I.	Technical holding times	N	Sampling dates:
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	SW	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	SW	
VII.	Duplicate Sample Analysis	SW	
VIII.	Laboratory Control Samples (LCS)	N A	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	Cr, Co, Zn J/WJ/A
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	TB = 1/6 [Signature]

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

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

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

1	SL-285-SA6-SS-0.0-0.5	11	SL-284-SA6-SS-0.0-0.5	21	#3 MSN (6010B)	31	
2	SL-285-SA6-SB-4.0-5.0	12	SL-284-SA6-SB-4.0-5.0	22	#3 DUP ✓	32	
3	SL-285-SA6-SB-6.0-7.0	13	SL-284-SA6-SB-9.0-10.0	23		33	
4	SL-282-SA6-SS-0.0-0.5	14	SL-284-SA6-SB-14.0-15.0	24		34	
5	SL-282-SA6-SB-2.5-3.5	15	SL-284-SA6-SB-15.5-16.5	25		35	
6	SL-283-SA6-SS-0.0-0.5	16	<del>EB SA6-SB-143011</del> [Signature]	26		36	
7	SL-283-SA6-SB-4.0-5.0	17	SL-283-SA6-SS-0.0-0.5MS	27		37	
8	SL-283-SA6-SB-9.0-10.0	18	SL-283-SA6-SS-0.0-0.5MSD	28		38	
9	SL-283-SA6-SB-14.0-15.0	19	SL-283-SA6-SS-0.0-0.5DUP	29		39	
10	SL-283-SA6-SB-18.0-19.0	20	#3 MS (6010B)	30		40	

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



PB/ICB/CCB QUALIFIED SAMPLES

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

Soil preparation factor applied: 200X

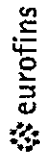
Associated Samples: All 2V 211-15 Reason: B

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	2	4	5	6	11	15	12	13	14
Sb			0.30	0.30	0.1P		0.094	0.12	0.12	0.12	0.091			
As			0.47	0.47										
Be			0.053	0.053										
Mo			0.33	0.33		0.32				2.4		2.75		

2V 9.2 4.6 2.4 4.0 2.7 3.2 3.6

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



Lancaster  
Laboratories

QUALITY ASSURANCE SUMMARY  
FORM 5A (MS/MSD)  
MATRIX SPIKE/MATRIX SPIKE DUPLICATE  
SDG No.: DE290  
Matrix: SOIL  
Level (low/med): LOW

Background Lab Sample ID: 6487630BKG Matrix Spike Lab Sample ID: 6487631MS Matrix Spike Duplicate Lab Sample ID: 6487632MSD  
& Solids for Sample: 93.9  
Batch Id(s): P33908B, P33926B, P33911C

Analyte	Mass	BKG Sample		MS Sample		MSD Sample		MS Spike Added	MSD Spike Added	Units		MS		MSD		RPD	Q	Control Limit	
		Result	C	Result	C	Result	C			MG/KG	KG/KG	%R	Q	%R	Q			%R	RPD
Aluminum		14245.2118		15495.8671		16030.6782		204.8005	206.7889	MG/KG	611	611		863		3		74X	20P
Antimony	121	0.1221	B	0.6728		0.5951		1.2780	1.2653	MG/KG	43	43	N	37	N	12		75 - 125	20MS
Arsenic	75	4.4892		10.3898		7.9630		2.1299	2.1088	MG/KG	277	277	N	165	N	26	*	75 - 125	20MS
Barium	137	108.7900		167.3269		122.4813		10.6496	10.5442	MG/KG	550	550		130		31	*	74X	20MS
Beryllium	9	0.5085		2.2492		1.5188		0.8520	0.8435	MG/KG	204	204	N	120		39	*	75 - 125	20MS
Boron		4.8842	B	206.1717		209.2393		204.8005	206.7889	MG/KG	98	98		99		1		84 - 115	20P
Cadmium	111	0.2449		2.2428		1.5789		1.0650	1.0544	MG/KG	188	188	N	127	N	35	*	75 - 125	20MS
Calcium		4940.2337		6114.9504		6536.5303		409.6010	413.5778	MG/KG	287	287		386		7		74X	20P
Chromium	52	19.0813		47.0501		35.3863		10.6496	10.5442	MG/KG	263	263	N	155	N	28	*	75 - 125	20MS
Cobalt	59	7.1721		108.6262		74.7583		53.2481	52.7209	MG/KG	191	191	N	128	N	37	*	75 - 125	20MS
Copper	63	12.6710		40.0852		26.9720		10.6496	10.5442	MG/KG	257	257	N	136	N	39	*	75 - 125	20MS
Iron		22267.7442		19916.0615		20745.9144		102.4003	103.3944	MG/KG	-2297	-2297		-1472		4		74X	20P
Lead	208	10.8729		21.3845		13.3384		3.1949	3.1633	MG/KG	329	329	N	78		46	*	75 - 125	20MS
Lithium		22.7202		125.0655		124.3928		102.4003	103.3944	MG/KG	100	100		98		1		82 - 114	20P
Magnesium		5174.5589		5373.6473		5587.4448		204.8005	206.7889	MG/KG	97	97		200		4		74X	20P
Manganese		327.9626		311.9573		331.1331		51.2001	51.6972	MG/KG	-31	-31		6		6			20P
Mercury		0.5625		0.7402		0.6844		0.1678	0.1750	MG/KG	106	106		70		8		65 - 135	20CV
Molybdenum	98	0.9749		20.0703		14.1355		10.6496	10.5442	MG/KG	179	179	N	125		35	*	75 - 125	20MS
Nickel	60	13.2096		40.5112		28.5115		10.6496	10.5442	MG/KG	256	256	N	145	N	35	*	75 - 125	20MS
Phosphorus		391.6547		522.5342		513.4433		102.4003	103.3944	MG/KG	128	128	N	118		2		75 - 125	20P
Potassium		2630.8724		3703.1345		3676.1541		1024.0026	1033.9444	MG/KG	105	105		101		1		75 - 125	20P
Selenium	78	0.2732	B	3.0607		3.0388		2.1299	2.1088	MG/KG	131	131	N	131		1		75 - 125	20MS
Silver	107	0.0524	B	18.6794		13.1191		10.6496	10.5442	MG/KG	175	175	N	124		35	*	75 - 125	20MS
Sodium		147.2447		1148.9402		1161.3026		1024.0026	1033.9444	MG/KG	98	98		98		1		75 - 125	20P
Strontium		21.1040		126.2134		126.7182		102.4003	103.3944	MG/KG	103	103		102		0		75 - 115	20P
Thallium	203	0.2630		1.1240		0.8378		0.4260	0.4218	MG/KG	202	202	N	136	N	29	*	75 - 125	20MS
Tin		2.7115	B	379.0755		372.6635		409.6010	413.5778	MG/KG	92	92		89		2		80 - 110	20P
Titanium		1099.4727		1271.5245		1373.9539		102.4003	103.3944	MG/KG	168	168		265		8		74X	20P
Vanadium	51	40.2638		77.3376		60.4182		10.6496	10.5442	MG/KG	348	348	N	191	N	25	*	75 - 125	20MS
Zinc	66	73.5439		124.3024		96.0997		10.6496	10.5442	MG/KG	477	477		214		26	*	74X	20MS
Zirconium		2.2364	B	104.7084		107.6925		102.4003	103.3944	MG/KG	100	100		102		3		81 - 110	20P

METHODS:

P = ICP Atomic Emission Spectrometer CV = Cold Vapor

MS = ICP Mass Spectrometry AF = Cold Vapor Atomic Fluorescence

CONCENTRATION QUALIFIERS:

U = Below MDL, B = Below LOQ

FLAGS:

N = Matrix Spike OOS, \* = Duplicate OOS

wpz 1,2, 4-15 (P Jdt)

QUALITY ASSURANCE SUMMARY  
FORM 5A (MS/MSD)  
MATRIX SPIKE/MATRIX SPIKE DUPLICATE  
SDG No.: DE290  
Matrix: SOIL  
Level (low/med): LOWBackground Lab Sample ID: 6487627BKG Matrix Spike Lab Sample ID: 6487627MS Matrix Spike Duplicate Lab Sample ID: 6487627MSD  
& Solids for Sample: 94.1  
Batch Id(s): P34108A

Analyte	Mass	BKG Sample		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 M
Aluminum		10687.6012		11862.5166		10939.2187		206.3494	202.4189	MG/KG	569		124		74X	20P
Boron		6.3486		198.6515		194.2412		206.3494	202.4189	MG/KG	93		93		84 - 115	20P
Calcium		2569.7386		3266.1267		2840.0617		412.6987	404.8378	MG/KG	169		67		74X	20P
Iron		17233.1358		15965.7171		15503.0079		103.1747	101.2095	MG/KG	-1228		-1709		74X	20P
Lithium		19.7499		116.9526		113.9214		103.1747	101.2095	MG/KG	94		93		82 - 114	20P
Magnesium		3720.6685		3756.1807		3445.0281		206.3494	202.4189	MG/KG	17		-136		74X	20P
Manganese		278.2903		296.4467		275.9385		51.5873	50.6047	MG/KG	35		-5		74X	20P
Phosphorus		320.4018		412.3139		378.4778		103.1747	101.2095	MG/KG	89		57 N		75 - 125	20P
Potassium		2718.5043		3786.5955		3517.8969		1031.7469	1012.0945	MG/KG	104		79		75 - 125	20P
Sodium		211.8573		1216.6906		1188.9368		1031.7469	1012.0945	MG/KG	97		97		75 - 125	20P
Strontium		12.7125		111.6464		108.0300		103.1747	101.2095	MG/KG	96		94		75 - 115	20P
Tin		2.7150 B		371.3092		366.7982		412.6987	404.8378	MG/KG	89		90		80 - 110	20P
Titanium		1013.7364		1175.0874		1054.8849		103.1747	101.2095	MG/KG	156		41		74X	20P
Zirconium		2.3594 B		102.8383		101.0344		103.1747	101.2095	MG/KG	97		97		81 - 110	20P

# 3 only

P(5/115)

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

## QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE290

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6487630BKG

% Solids for Duplicate: 93.7

Batch ID(s): P33908B, P33926B, P33911C

Concentration Units: MG/KG

Duplicate Lab Sample ID: 6487633DUP

% Solids for Sample: 93.9

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			14245.2118		13384.2158		6		P
Antimony	121		0.1221	B	0.0758	U	200		MS
Arsenic	75		4.4892		4.1677		7		MS
Barium	137		108.7900		82.6985		27	*	MS
Beryllium	9	0.1	0.5085		0.4954		3		MS
Boron			4.8842	B	4.1265	B	17		P
Cadmium	111	0.1	0.2449		0.2081		16		MS
Calcium			4940.2337		5945.6621		18		P
Chromium	52		19.0813		16.8387		12		MS
Cobalt	59		7.1721		6.0396		17		MS
Copper	63		12.6710		9.7649		26	*	MS
Iron			22267.7442		20794.3112		7		P
Lead	208		10.8729		6.5393		50	*	MS
Lithium			22.7202		21.5557		5		P
Magnesium			5174.5589		5263.5152		2		P
Manganese			327.9626		274.9237		18		P
Mercury		0.1	0.5625		0.5087		10		CV
Molybdenum	98		0.9749		0.6914		34	*	MS
Nickel	60		13.2096		11.7883		11		MS
Phosphorus			391.6547		406.9967		4		P
Potassium			2630.8724		2579.6354		2		P
Selenium	78	0.4	0.2732	B	0.5544		68		MS
Silver	107		0.0524	B	0.0375	B	33		MS
Sodium		104.4	147.2447		144.9766		2		P
Strontium			21.1040		22.5172		6		P
Thallium	203	0.1	0.2630		0.2075		24		MS
Tin			2.7115	B	2.5538	B	6		P
Titanium			1099.4727		1091.0088		1		P
Vanadium	51		40.2638		35.4510		13		MS
Zinc	66		73.5439		61.9522		17		MS
Zirconium			2.2364	B	5.1832		79		P

NOTE: An asterisk (\*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).

The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

## METHODS:

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

## CONCENTRATION QUALIFIERS:

U = Below MDL  
B = Below LOQ

## FLAGS:

\* = Duplicate Out of Spec

*Handwritten notes:*  
60/0.13 dup = 1, 2, 4, 15  
Ba, Cu, Pb, Mo.  
DE290 6478

## QUALITY ASSURANCE SUMMARY

FORM 6

DUPLICATES

SDG No.: DE290

Matrix: SOIL Level (low/med): LOW

Background Lab Sample ID: 6487627BKG

Duplicate Lab Sample ID: 6487627DUP

% Solids for Duplicate: 94.1

% Solids for Sample: 94.1

Batch ID(s): P34108A

Concentration Units: MG/KG

Analyte	Mass	Control Limit	Samples (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			10687.6012		11036.9830		3		P
Boron		5.1	6.3486		6.9760		9		P
Calcium			2569.7386		2399.4646		7		P
Iron			17233.1358		17298.0739		0		P
Lithium			19.7499		18.5175		6		P
Magnesium			3720.6685		3488.1448		6		P
Manganese			278.2903		274.9561		1		P
Phosphorus			320.4018		320.8269		0		P
Potassium			2718.5043		2622.0858		4		P
Sodium		102.2	211.8573		172.7714		20		P
Strontium			12.7125		13.1775		4		P
Tin			2.7150	B	2.5719	B	5		P
Titanium			1013.7364		1029.1629		2		P
Zirconium			2.3594	B	3.2249	B	31		P

NOTE: An asterisk (\*) in column "Q" indicates poor duplicate precision (RPD > 20% OR |(S) - (D)| > LOQ for values < 5x LOQ).

The data are considered to be valid because the laboratory control sample is within the control limits. See the Laboratory Control Sample.

~  
Zr  $\phi$  < 5x N<sub>ful</sub>

#3 og

DE290 2477

## METHODS:

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

## CONCENTRATION QUALIFIERS:

U= Below MDL  
B= Below LOQ

## FLAGS:

\* = Duplicate Out of Spec

# **SAMPLE DELIVERY GROUP**

**DX110**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-149-SA5DN-SB-4.0-5.0	6340984	N	METHOD	1613B	III
11-Jul-2011	SL-298-SA6-SS-0.0-0.5	6340995	N	METHOD	1613B	III
11-Jul-2011	SL-149-SA6-SS-0.0-0.5	6340990	N	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5	6340991	N	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	6340992	MS	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	6340993	MSD	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MSD	P340991M371013	MSD	METHOD	1613B	III
11-Jul-2011	SL-297-SA6-SS-0.0-0.5MS	P340991R370916	MS	METHOD	1613B	III
11-Jul-2011	DUP01-SA6-QC-071111	6340996	FD	METHOD	1613B	III
11-Jul-2011	SL-199-SA5DN-SB-4.0-5.0	6340985	N	METHOD	1613B	III
11-Jul-2011	SL-199-SA5DN-SB-9.0-10.0	6340986	N	METHOD	1613B	III
11-Jul-2011	SL-135-SA6-SB-4.0-5.0	6340987	N	METHOD	1613B	III
11-Jul-2011	SL-292-SA6-SS-0.0-0.5	6340994	N	METHOD	1613B	III
11-Jul-2011	SL-138-SA6-SB-4.0-5.0	6340988	N	METHOD	1613B	III
11-Jul-2011	SL-138-SA6-SB-9.0-10.0	6340989	N	METHOD	1613B	III
11-Jul-2011	SL-289-SA6-SS-0.0-0.5	6342345	N	METHOD	1613B	III
12-Jul-2011	SL-136-SA6-SB-4.0-5.0	6342337	N	METHOD	1613B	III
12-Jul-2011	SL-136-SA6-SB-9.0-10.0	6342338	N	METHOD	1613B	III
12-Jul-2011	SL-139-SA6-SB-4.0-5.0	6342339	N	METHOD	1613B	III
12-Jul-2011	SL-139-SA6-SB-9.0-10.0	6342340	N	METHOD	1613B	III
12-Jul-2011	SL-275-SA6-SB-4.0-5.0	6342341	N	METHOD	1613B	III
12-Jul-2011	SL-275-SA6-SB-9.0-10.0	6342342	N	METHOD	1613B	III
12-Jul-2011	SL-276-SA6-SB-4.0-5.0	6342343	N	METHOD	1613B	III
12-Jul-2011	SL-276-SA6-SB-9.0-10.0	6342344	N	METHOD	1613B	III



## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP01-SA6-QC-071111

Collected: 7/11/2011 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.936	J	0.100	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-135-SA6-SB-4.0-5.0

Collected: 7/11/2011 12:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.458	JB	0.0418	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.177	JBQ	0.0124	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0298	JBQ	0.0264	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0452	JBQ	0.0289	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0268	JBQ	0.0185	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0749	JBQ	0.0289	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0932	JBQ	0.0267	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0542	JBQ	0.0226	MDL	5.75	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0288	JQ	0.0166	MDL	5.75	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0516	JB	0.0167	MDL	5.75	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0432	JBQ	0.0169	MDL	5.75	PQL	ng/Kg	U	B
OCDD	0.987	JBQ	0.0373	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.229	JBQ	0.0754	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-136-SA6-SB-4.0-5.0

Collected: 7/12/2011 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.805	JB	0.0948	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.173	JBQ	0.0646	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0745	JBQ	0.0395	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0470	JBQ	0.0322	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0716	JB	0.0399	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0280	JBQ	0.0264	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0672	JBQ	0.0391	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0711	JB	0.0375	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0402	JBQ	0.0276	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0550	JBQ	0.0296	MDL	5.40	PQL	ng/Kg	U	B
OCDD	6.26	JB	0.0952	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.313	JBQ	0.120	MDL	10.8	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

10/27/2011 8:06:43 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-136-SA6-SB-9.0-10.0

**Collected:** 7/12/2011 8:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.681	JB	0.0670	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.165	JBQ	0.0453	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0408	JBQ	0.0293	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0367	JBQ	0.0237	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0359	JB	0.0289	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0419	JB	0.0235	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0646	JBQ	0.0281	MDL	5.40	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0479	JQ	0.0410	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0430	JQ	0.0413	MDL	1.08	PQL	ng/Kg	U	B
OCDD	2.50	JB	0.0934	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.187	JBQ	0.121	MDL	10.8	PQL	ng/Kg	U	B

**Sample ID:** SL-138-SA6-SB-4.0-5.0

**Collected:** 7/11/2011 3:05:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.493	JB	0.0482	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.129	JB	0.0141	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0361	JBQ	0.0272	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0321	JBQ	0.0235	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0317	JB	0.0251	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0239	JBQ	0.0198	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0571	JBQ	0.0241	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0529	JBQ	0.0177	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0546	JBQ	0.0193	MDL	5.31	PQL	ng/Kg	U	B
OCDD	1.60	JB	0.0466	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.138	JBQ	0.0932	MDL	10.6	PQL	ng/Kg	U	B

**Sample ID:** SL-138-SA6-SB-9.0-10.0

**Collected:** 7/11/2011 3:15:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.848	JBQ	0.0633	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.272	JB	0.0168	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0574	JBQ	0.0303	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.121	JBQ	0.0329	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.160	JBQ	0.0249	MDL	5.51	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

10/27/2011 8:06:43 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-138-SA6-SB-9.0-10.0

**Collected:** 7/11/2011 3:15:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.108	JB	0.0341	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0833	JBQ	0.0211	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0675	JBQ	0.0334	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.115	JBQ	0.0290	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.133	JBQ	0.0456	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.176	JQ	0.0221	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.101	JBQ	0.0230	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.191	JB	0.0212	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.113	JQ	0.0475	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	4.73	JB	0.0583	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.447	JBQ	0.0928	MDL	11.0	PQL	ng/Kg	U	B

**Sample ID:** SL-139-SA6-SB-4.0-5.0

**Collected:** 7/12/2011 9:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.533	JB	0.0585	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.119	JBQ	0.0329	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0511	JBQ	0.0478	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0619	JB	0.0268	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0388	JB	0.0259	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0435	JBQ	0.0261	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0739	JBQ	0.0261	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0410	JB	0.0312	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0602	JBQ	0.0335	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0746	J	0.0229	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0550	JB	0.0259	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.102	JBQ	0.0213	MDL	5.37	PQL	ng/Kg	U	B
OCDD	1.87	JB	0.0932	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.236	JBQ	0.0782	MDL	10.7	PQL	ng/Kg	U	B

**Sample ID:** SL-139-SA6-SB-9.0-10.0

**Collected:** 7/12/2011 9:55:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.694	JB	0.0588	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.212	JBQ	0.0390	MDL	5.60	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

10/27/2011 8:06:43 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-139-SA6-SB-9.0-10.0

Collected: 7/12/2011 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0691	JBQ	0.0339	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.102	JBQ	0.0221	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0850	JB	0.0351	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0895	JBQ	0.0212	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0759	JBQ	0.0358	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.119	JBQ	0.0440	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.148	J	0.0238	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0599	JBQ	0.0224	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.130	JBQ	0.0231	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0755	J	0.0334	MDL	1.12	PQL	ng/Kg	U	B
OCDD	2.45	JB	0.0947	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.163	JBQ	0.0798	MDL	11.2	PQL	ng/Kg	U	B

Sample ID: SL-149-SA5DN-SB-4.0-5.0

Collected: 7/11/2011 8:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.807	JBQ	0.0654	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.251	JB	0.0272	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0619	JB	0.0256	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.109	JBQ	0.0385	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0558	JB	0.0215	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.122	JBQ	0.0382	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0982	JBQ	0.0370	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0310	JQ	0.0213	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0801	JBQ	0.0247	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0580	JB	0.0220	MDL	5.44	PQL	ng/Kg	U	B
OCDD	6.19	JB	0.0920	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.518	JBQ	0.118	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-149-SA6-SS-0.0-0.5

Collected: 7/11/2011 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.24	JB	0.0714	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.14	JB	0.0884	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	2.61	JB	0.0773	MDL	5.02	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

10/27/2011 8:06:43 AM

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## Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-149-SA6-SS-0.0-0.5

Collected: 7/11/2011 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	2.65	JB	0.0872	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.993	JB	0.0707	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.87	JB	0.0843	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.434	JBQ	0.0754	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.906	JB	0.0658	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.01	J	0.0680	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.04	JB	0.0614	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.27	JB	0.0626	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.267	J	0.0381	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-199-SA5DN-SB-4.0-5.0

Collected: 7/11/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.703	JB	0.0582	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JB	0.0167	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0396	JBQ	0.0355	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0741	JBQ	0.0302	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.188	JB	0.0362	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0407	JBQ	0.0237	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.438	JBQ	0.0370	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.538	JBQ	0.0468	MDL	5.79	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0889	JBQ	0.0399	MDL	5.79	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.145	JQ	0.0215	MDL	5.79	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0839	JB	0.0279	MDL	5.79	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0485	JB	0.0228	MDL	5.79	PQL	ng/Kg	U	B
OCDD	2.11	JB	0.0645	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.264	JB	0.148	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-199-SA5DN-SB-9.0-10.0

Collected: 7/11/2011 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.857	JB	0.0599	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.227	JBQ	0.0162	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0376	JBQ	0.0354	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0465	JBQ	0.0213	MDL	5.57	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-199-SA5DN-SB-9.0-10.0

Collected: 7/11/2011 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0397	JBQ	0.0321	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0191	JBQ	0.0187	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0660	JBQ	0.0316	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0345	JQ	0.0211	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0487	JBQ	0.0201	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0579	JBQ	0.0220	MDL	5.57	PQL	ng/Kg	U	B
OCDD	3.74	JB	0.0480	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.271	JBQ	0.0989	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-275-SA6-SB-4.0-5.0

Collected: 7/12/2011 11:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.608	JB	0.0525	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.117	JB	0.0219	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0798	JBQ	0.0542	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0664	JBQ	0.0173	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0785	JBQ	0.0281	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0364	JBQ	0.0139	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.134	JB	0.0283	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0569	JBQ	0.0240	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0324	JQ	0.0168	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0274	JBQ	0.0162	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0570	JBQ	0.0175	MDL	5.15	PQL	ng/Kg	U	B
OCDD	2.02	JB	0.0832	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.224	JBQ	0.0829	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-275-SA6-SB-9.0-10.0

Collected: 7/12/2011 12:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.555	JB	0.0452	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.128	JBQ	0.0172	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0396	JBQ	0.0125	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0337	JBQ	0.0257	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0280	JBQ	0.0251	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0257	JBQ	0.0164	MDL	5.45	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-275-SA6-SB-9.0-10.0

Collected: 7/12/2011 12:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0393	JBQ	0.0117	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0387	JBQ	0.0163	MDL	5.45	PQL	ng/Kg	U	B
OCDD	2.71	JBQ	0.0624	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.152	JBQ	0.0759	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-276-SA6-SB-4.0-5.0

Collected: 7/12/2011 2:25:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.965	JC	0.0894	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-276-SA6-SB-4.0-5.0

Collected: 7/12/2011 2:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.21	JB	0.111	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.529	JBQ	0.0784	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.46	JB	0.102	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.90	JB	0.0796	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.05	JB	0.101	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.17	JB	0.0766	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.232	JBQ	0.120	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.230	JBQ	0.0587	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.756	JB	0.0986	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.81	JB	0.107	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0400	JQ	0.0313	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-276-SA6-SB-9.0-10.0

Collected: 7/12/2011 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.423	JB	0.0407	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0993	JB	0.0144	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0357	JBQ	0.0165	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0291	JBQ	0.0137	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0427	JBQ	0.0154	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0541	JBQ	0.0174	MDL	5.41	PQL	ng/Kg	U	B
OCDD	1.24	JB	0.0631	MDL	10.8	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-276-SA6-SB-9.0-10.0

Collected: 7/12/2011 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.150	JB	0.0822	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-289-SA6-SS-0.0-0.5

Collected: 7/11/2011 3:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.92	JB	0.0539	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.300	JBQ	0.0207	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0421	JBQ	0.0149	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0740	JBQ	0.0263	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0267	JBQ	0.0129	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0738	JB	0.0268	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0209	JBQ	0.0196	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0282	JQ	0.0161	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0410	JBQ	0.0143	MDL	4.94	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0424	JBQ	0.0170	MDL	4.94	PQL	ng/Kg	U	B
OCDF	0.493	JB	0.0861	MDL	9.88	PQL	ng/Kg	U	B

Sample ID: SL-292-SA6-SS-0.0-0.5

Collected: 7/11/2011 12:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.67	JB	0.181	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.52	JB	0.122	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.55	JB	0.113	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.86	JB	0.122	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.02	JB	0.130	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.04	JB	0.184	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.99	J	0.126	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.32	JB	0.107	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.57	JB	0.117	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.643	JQ	0.0925	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-297-SA6-SS-0.0-0.5

Collected: 7/11/2011 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2850	EB	0.535	MDL	5.04	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>GENCHEM</b>								
<b>Method:</b>	<b>1613B</b>	<b>Matrix:</b>	<b>SO</b>						

Sample ID: SL-297-SA6-SS-0.0-0.5

Collected: 7/11/2011 9:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.939	JQ	0.0911	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	56700	EB	1.02	MDL	10.1	PQL	ng/Kg	J	*XI

Sample ID: SL-298-SA6-SS-0.0-0.5

Collected: 7/11/2011 8:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5730	EB	1.09	MDL	5.02	PQL	ng/Kg	J	*XI
OCDD	97400	EB	1.61	MDL	10.0	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_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
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX110

Laboratory: LL

EDD Filename: PrepDX110\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX110

# Method Blank Outlier Report

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2030B371855	7/25/2011 6:55:00 PM	1,2,3,4,6,7,8-HPCDD 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 OCDD OCDF	0.487 ng/Kg 0.198 ng/Kg 0.0894 ng/Kg 0.0284 ng/Kg 0.0788 ng/Kg 0.0466 ng/Kg 0.0517 ng/Kg 0.0580 ng/Kg 0.0495 ng/Kg 0.0396 ng/Kg 0.0900 ng/Kg 0.0844 ng/Kg 0.904 ng/Kg 0.314 ng/Kg	DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-136-SA6-SB-4.0-5.0 SL-136-SA6-SB-9.0-10.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-139-SA6-SB-4.0-5.0 SL-139-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-275-SA6-SB-4.0-5.0 SL-275-SA6-SB-9.0-10.0 SL-276-SA6-SB-4.0-5.0 SL-276-SA6-SB-9.0-10.0 SL-289-SA6-SS-0.0-0.5 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5
BLK2030B372235	7/27/2011 10:35:00 PM	2,3,7,8-TCDF	0.0224 ng/Kg	DUP01-SA6-QC-071111 SL-135-SA6-SB-4.0-5.0 SL-136-SA6-SB-4.0-5.0 SL-136-SA6-SB-9.0-10.0 SL-138-SA6-SB-4.0-5.0 SL-138-SA6-SB-9.0-10.0 SL-139-SA6-SB-4.0-5.0 SL-139-SA6-SB-9.0-10.0 SL-149-SA5DN-SB-4.0-5.0 SL-149-SA6-SS-0.0-0.5 SL-199-SA5DN-SB-4.0-5.0 SL-199-SA5DN-SB-9.0-10.0 SL-275-SA6-SB-4.0-5.0 SL-275-SA6-SB-9.0-10.0 SL-276-SA6-SB-4.0-5.0 SL-276-SA6-SB-9.0-10.0 SL-289-SA6-SS-0.0-0.5 SL-292-SA6-SS-0.0-0.5 SL-297-SA6-SS-0.0-0.5 SL-298-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.458 ng/Kg	0.458U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.177 ng/Kg	0.177U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0932 ng/Kg	0.0932U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0516 ng/Kg	0.0516U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0432 ng/Kg	0.0432U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	OCDD	0.987 ng/Kg	0.987U ng/Kg
SL-135-SA6-SB-4.0-5.0(RES)	OCDF	0.229 ng/Kg	0.229U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.805 ng/Kg	0.805U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.173 ng/Kg	0.173U ng/Kg

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: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0745 ng/Kg	0.0745U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0716 ng/Kg	0.0716U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0280 ng/Kg	0.0280U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0672 ng/Kg	0.0672U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0711 ng/Kg	0.0711U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0402 ng/Kg	0.0402U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-136-SA6-SB-4.0-5.0(RES)	OCDF	0.313 ng/Kg	0.313U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.681 ng/Kg	0.681U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.165 ng/Kg	0.165U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0408 ng/Kg	0.0408U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0367 ng/Kg	0.0367U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0359 ng/Kg	0.0359U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PCDF	0.0646 ng/Kg	0.0646U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	OCDD	2.50 ng/Kg	2.50U ng/Kg
SL-136-SA6-SB-9.0-10.0(RES)	OCDF	0.187 ng/Kg	0.187U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.493 ng/Kg	0.493U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0571 ng/Kg	0.0571U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PCDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	OCDD	1.60 ng/Kg	1.60U ng/Kg
SL-138-SA6-SB-4.0-5.0(RES)	OCDF	0.138 ng/Kg	0.138U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.848 ng/Kg	0.848U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.272 ng/Kg	0.272U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0574 ng/Kg	0.0574U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.121 ng/Kg	0.121U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.160 ng/Kg	0.160U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.108 ng/Kg	0.108U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0675 ng/Kg	0.0675U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.115 ng/Kg	0.115U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PCDD	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: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-138-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.191 ng/Kg	0.191U ng/Kg
SL-138-SA6-SB-9.0-10.0(RES)	OCDF	0.447 ng/Kg	0.447U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.533 ng/Kg	0.533U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.119 ng/Kg	0.119U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0511 ng/Kg	0.0511U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0388 ng/Kg	0.0388U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0435 ng/Kg	0.0435U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0739 ng/Kg	0.0739U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0410 ng/Kg	0.0410U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0602 ng/Kg	0.0602U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	OCDD	1.87 ng/Kg	1.87U ng/Kg
SL-139-SA6-SB-4.0-5.0(RES)	OCDF	0.236 ng/Kg	0.236U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.694 ng/Kg	0.694U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.212 ng/Kg	0.212U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0691 ng/Kg	0.0691U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0850 ng/Kg	0.0850U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0895 ng/Kg	0.0895U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0759 ng/Kg	0.0759U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.119 ng/Kg	0.119U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0599 ng/Kg	0.0599U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.130 ng/Kg	0.130U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0755 ng/Kg	0.0755U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	OCDD	2.45 ng/Kg	2.45U ng/Kg
SL-139-SA6-SB-9.0-10.0(RES)	OCDF	0.163 ng/Kg	0.163U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.807 ng/Kg	0.807U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.251 ng/Kg	0.251U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0558 ng/Kg	0.0558U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.122 ng/Kg	0.122U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0982 ng/Kg	0.0982U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0801 ng/Kg	0.0801U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0580 ng/Kg	0.0580U ng/Kg
SL-149-SA5DN-SB-4.0-5.0(RES)	OCDF	0.518 ng/Kg	0.518U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.703 ng/Kg	0.703U ng/Kg

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: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0396 ng/Kg	0.0396U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0741 ng/Kg	0.0741U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.188 ng/Kg	0.188U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0407 ng/Kg	0.0407U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0889 ng/Kg	0.0889U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	OCDD	2.11 ng/Kg	2.11U ng/Kg
SL-199-SA5DN-SB-4.0-5.0(RES)	OCDF	0.264 ng/Kg	0.264U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.857 ng/Kg	0.857U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.227 ng/Kg	0.227U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0376 ng/Kg	0.0376U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0397 ng/Kg	0.0397U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0191 ng/Kg	0.0191U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0660 ng/Kg	0.0660U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0579 ng/Kg	0.0579U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	OCDD	3.74 ng/Kg	3.74U ng/Kg
SL-199-SA5DN-SB-9.0-10.0(RES)	OCDF	0.271 ng/Kg	0.271U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.608 ng/Kg	0.608U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.117 ng/Kg	0.117U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0798 ng/Kg	0.0798U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0785 ng/Kg	0.0785U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0364 ng/Kg	0.0364U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.134 ng/Kg	0.134U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0274 ng/Kg	0.0274U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0570 ng/Kg	0.0570U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	OCDD	2.02 ng/Kg	2.02U ng/Kg
SL-275-SA6-SB-4.0-5.0(RES)	OCDF	0.224 ng/Kg	0.224U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.555 ng/Kg	0.555U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.128 ng/Kg	0.128U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0396 ng/Kg	0.0396U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0337 ng/Kg	0.0337U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0280 ng/Kg	0.0280U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0393 ng/Kg	0.0393U ng/Kg

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: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-275-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0387 ng/Kg	0.0387U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	OCDD	2.71 ng/Kg	2.71U ng/Kg
SL-275-SA6-SB-9.0-10.0(RES)	OCDF	0.152 ng/Kg	0.152U ng/Kg
SL-276-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.232 ng/Kg	0.232U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.423 ng/Kg	0.423U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0993 ng/Kg	0.0993U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0357 ng/Kg	0.0357U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0291 ng/Kg	0.0291U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0427 ng/Kg	0.0427U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	OCDD	1.24 ng/Kg	1.24U ng/Kg
SL-276-SA6-SB-9.0-10.0(RES)	OCDF	0.150 ng/Kg	0.150U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	1.92 ng/Kg	1.92U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.300 ng/Kg	0.300U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.0740 ng/Kg	0.0740U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.0738 ng/Kg	0.0738U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0209 ng/Kg	0.0209U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0410 ng/Kg	0.0410U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0424 ng/Kg	0.0424U ng/Kg
SL-289-SA6-SS-0.0-0.5(RES)	OCDF	0.493 ng/Kg	0.493U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-297-SA6-SS-0.0-0.5MS SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	OCDD	-489	-572	40.00-135.00	-	OCDD	No Qual, >4x
SL-297-SA6-SS-0.0-0.5MSD (SL-297-SA6-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDD	-	35	40.00-135.00	-	1,2,3,4,6,7,8-HPCDD	No Qual, >4x

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
MOISTURE	0.85	0.80	6		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-297-SA6-SS-0.0-0.5	DUP01-SA6-QC-071111			
1,2,3,4,6,7,8-HPCDD	2850	3330	16	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	354	419	17	50.00	
1,2,3,4,7,8,9-HPCDF	41.6	49.0	16	50.00	
1,2,3,4,7,8-HxCDD	12.0	14.0	15	50.00	
1,2,3,4,7,8-HxCDF	30.7	33.5	9	50.00	
1,2,3,6,7,8-HxCDD	70.9	84.3	17	50.00	
1,2,3,6,7,8-HxCDF	17.7	20.7	16	50.00	
1,2,3,7,8,9-HxCDD	27.6	31.9	14	50.00	
1,2,3,7,8,9-HxCDF	5.90	6.47	9	50.00	
1,2,3,7,8-PCDD	7.47	6.57	13	50.00	
1,2,3,7,8-PCDF	33.6	51.0	41	50.00	
2,3,4,6,7,8-HxCDF	31.1	37.9	20	50.00	
2,3,4,7,8-PCDF	28.7	34.2	17	50.00	
2,3,7,8-TCDD	0.939	0.936	0	50.00	
2,3,7,8-TCDF	11.8	11.5	3	50.00	
OCDD	56700	66100	15	50.00	
OCDF	736	848	14	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA6-QC-071111	2,3,7,8-TCDD	J	0.936	1.01	PQL	ng/Kg	J (all detects)
SL-135-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.458	5.75	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.177	5.75	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0298	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0452	5.75	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0268	5.75	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0749	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0932	5.75	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0542	5.75	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0288	5.75	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0516	5.75	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0432	5.75	PQL	ng/Kg	
	OCDD	JBQ	0.987	11.5	PQL	ng/Kg	
	OCDF	JBQ	0.229	11.5	PQL	ng/Kg	
SL-136-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.805	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.173	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0745	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0470	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0716	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0280	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0672	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0711	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0402	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0550	5.40	PQL	ng/Kg	
	OCDD	JB	6.26	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.313	10.8	PQL	ng/Kg	
SL-136-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.681	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.165	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0408	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0367	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0359	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0419	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0646	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0479	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0430	1.08	PQL	ng/Kg	
	OCDD	JB	2.50	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.187	10.8	PQL	ng/Kg	
SL-138-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.493	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.129	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0361	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0321	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0317	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0239	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0571	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0529	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0546	5.31	PQL	ng/Kg	
	OCDD	JB	1.60	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.138	10.6	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-138-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.848	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.272	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0574	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.121	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.160	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.108	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0833	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0675	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.115	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.133	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.176	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.101	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.191	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.113	1.10	PQL	ng/Kg	
	OCDD	JB	4.73	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.447	11.0	PQL	ng/Kg	
SL-139-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.533	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.119	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0511	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0619	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0388	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0435	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0739	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.0410	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0602	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.0746	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0550	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.102	5.37	PQL	ng/Kg	
	OCDD	JB	1.87	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.236	10.7	PQL	ng/Kg	
SL-139-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.694	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.212	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0691	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.102	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0850	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0895	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0759	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.119	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.148	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0599	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.130	5.60	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0755	1.12	PQL	ng/Kg	
	OCDD	JB	2.45	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.163	11.2	PQL	ng/Kg	
SL-149-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.807	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.251	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0619	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.109	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0558	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.122	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0982	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0310	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0801	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0580	5.44	PQL	ng/Kg	
	OCDD	JB	6.19	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.518	10.9	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-149-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.24	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.14	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.61	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.65	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.993	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.87	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.434	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.906	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.01	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.04	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.27	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.267	1.00	PQL	ng/Kg	
SL-199-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.703	5.79	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.195	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0396	5.79	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0741	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.188	5.79	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0407	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.438	5.79	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.538	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0889	5.79	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.145	5.79	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0839	5.79	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0485	5.79	PQL	ng/Kg	
	OCDD	JB	2.11	11.6	PQL	ng/Kg	
	OCDF	JB	0.264	11.6	PQL	ng/Kg	
SL-199-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.857	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.227	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0376	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0465	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0397	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0191	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0660	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0345	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0487	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0579	5.57	PQL	ng/Kg	
	OCDD	JB	3.74	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.271	11.1	PQL	ng/Kg	
SL-275-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.608	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.117	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0798	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0664	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0785	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0364	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.134	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0569	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0324	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0274	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0570	5.15	PQL	ng/Kg	
	OCDD	JB	2.02	10.3	PQL	ng/Kg	
	OCDF	JBQ	0.224	10.3	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX110

Laboratory: LL

EDD Filename: DX110\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-275-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.555	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.128	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0396	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0337	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0280	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0257	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0393	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0387	5.45	PQL	ng/Kg	
	OCDD	JBQ	2.71	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.152	10.9	PQL	ng/Kg	
SL-276-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.21	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.529	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.46	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.90	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.05	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.17	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.232	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.230	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.756	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.81	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0400	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.965	1.08	PQL	ng/Kg	
SL-276-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.423	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0993	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0357	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0291	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0427	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0541	5.41	PQL	ng/Kg	
	OCDD	JB	1.24	10.8	PQL	ng/Kg	
	OCDF	JB	0.150	10.8	PQL	ng/Kg	
SL-289-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	1.92	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.300	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0421	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0740	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0267	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0738	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0209	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0282	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0410	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0424	4.94	PQL	ng/Kg	
	OCDF	JB	0.493	9.88	PQL	ng/Kg	
SL-292-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.67	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.52	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.55	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.86	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.02	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.04	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	3.99	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.32	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.57	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.643	1.00	PQL	ng/Kg	
SL-297-SA6-SS-0.0-0.5	2,3,7,8-TCDD	JQ	0.939	1.01	PQL	ng/Kg	J (all detects)

# **SAMPLE DELIVERY GROUP**

**DX111**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Jul-2011	SL-291-SA6-SS-0.0-0.5	6342330	N	METHOD	1613B	III
12-Jul-2011	SL-290-SA6-SS-0.0-0.5	6342335	N	METHOD	1613B	III
12-Jul-2011	SL-098-SA6-SS-0.0-0.5	6342331	N	METHOD	1613B	III
12-Jul-2011	SL-109-SA6-SS-0.0-0.5	6342332	N	METHOD	1613B	III
12-Jul-2011	SL-110-SA6-SS-0.0-0.5	6342333	N	METHOD	1613B	III
12-Jul-2011	SL-113-SA6-SS-0.0-0.5	6342334	N	METHOD	1613B	III
12-Jul-2011	EB-SA6-SS-071211	6342336	EB	METHOD	1613B	III
12-Jul-2011	SL-281-SA6-SS-0.0-0.5	6343418	N	METHOD	1613B	III
12-Jul-2011	SL-300-SA6-SS-0.0-0.5	6343419	N	METHOD	1613B	III
12-Jul-2011	SL-280-SA6-SS-0.0-0.5	6343417	N	METHOD	1613B	III
13-Jul-2011	SL-279-SA6-SS-0.0-0.5	6343428	N	METHOD	1613B	III
13-Jul-2011	SL-278-SA6-SS-0.0-0.5	6343427	N	METHOD	1613B	III
13-Jul-2011	SL-040-SA6-SS-0.0-0.5	6343422	N	METHOD	1613B	III
13-Jul-2011	SL-035-SA6-SS-0.0-0.5	6343421	N	METHOD	1613B	III
13-Jul-2011	SL-030-SA6-SS-0.0-0.5	6343420	N	METHOD	1613B	III
13-Jul-2011	SL-059-SA6-SS-0.0-0.5	6343424	N	METHOD	1613B	III
13-Jul-2011	SL-047-SA6-SS-0.0-0.5	6343423	N	METHOD	1613B	III
13-Jul-2011	SL-067-SA6-SS-0.0-0.5	6343426	N	METHOD	1613B	III
13-Jul-2011	SL-066-SA6-SS-0.0-0.5	6343425	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: AQ

Sample ID: EB-SA6-SS-071211

Collected: 7/12/2011 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.28	JBQ	0.459	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.25	JB	0.117	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.405	JBQ	0.267	MDL	10.8	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDF	0.514	JBQ	0.171	MDL	10.8	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.288	JBQ	0.168	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDD	0.642	JBQ	0.275	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	0.256	JBQ	0.192	MDL	10.8	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.183	JBQ	0.182	MDL	10.8	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.597	JBQ	0.166	MDL	10.8	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.906	JBQ	0.155	MDL	10.8	PQL	pg/L	U	B
OCDD	10.9	JB	0.416	MDL	21.6	PQL	pg/L	U	B
OCDF	1.17	JBQ	0.426	MDL	21.6	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-030-SA6-SS-0.0-0.5

Collected: 7/13/2011 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HxCDF	1.46	JB	0.201	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.32	JB	0.257	MDL	5.08	PQL	ng/Kg	J	Z
OCDD	21800	EB	0.229	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-035-SA6-SS-0.0-0.5

Collected: 7/13/2011 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	2.69	JB	0.116	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	3.49	JB	0.0720	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	2.45	JB	0.0691	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	4.89	JB	0.114	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.544	JB	0.0759	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.05	JB	0.0772	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.65	JB	0.0836	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	3.98	JB	0.0715	MDL	5.04	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

10/27/2011 7:56:29 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-035-SA6-SS-0.0-0.5

Collected: 7/13/2011 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	1.52	JB	0.0806	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.347	JB	0.0198	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.693	J	0.0942	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	5790	EB	0.121	MDL	10.1	PQL	ng/Kg	J	*XI

Sample ID: SL-040-SA6-SS-0.0-0.5

Collected: 7/13/2011 9:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.414	JC	0.0702	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-040-SA6-SS-0.0-0.5

Collected: 7/13/2011 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.03	JB	0.149	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.607	JB	0.0617	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	1.73	JB	0.0571	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.02	JB	0.0647	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.800	JB	0.0555	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.06	JB	0.0620	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.279	JB	0.0620	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.300	JB	0.0398	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.92	JB	0.0679	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.714	JB	0.0559	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.07	JB	0.0656	MDL	5.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0752	JB	0.0149	MDL	1.03	PQL	ng/Kg	U	B

Sample ID: SL-047-SA6-SS-0.0-0.5

Collected: 7/13/2011 1:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.96	JB	0.0228	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.247	JB	0.0320	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.270	JBQ	0.0514	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.422	JB	0.0357	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.09	JB	0.0521	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.285	JB	0.0320	MDL	4.98	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-047-SA6-SS-0.0-0.5

Collected: 7/13/2011 1:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HxCDD	1.08	JB	0.0541	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.112	JB	0.0384	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.185	JB	0.0335	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.420	JBQ	0.0334	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.256	JB	0.0331	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.438	JB	0.0294	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0518	JQ	0.0355	MDL	0.995	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.307	JBQ	0.0674	MDL	0.995	PQL	ng/Kg	J	Z
OCDF	8.79	JB	0.0358	MDL	9.95	PQL	ng/Kg	J	Z

Sample ID: SL-059-SA6-SS-0.0-0.5

Collected: 7/13/2011 1:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.683	JBQ	0.102	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.476	JB	0.0544	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	1.41	JB	0.0494	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.50	JB	0.0575	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.398	JB	0.0449	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.799	JBQ	0.0558	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.0806	JBQ	0.0562	MDL	4.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.165	JBQ	0.0260	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.52	JB	0.0405	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.368	JB	0.0456	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.420	JB	0.0406	MDL	4.89	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0749	JBQ	0.0145	MDL	0.978	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.249	JQ	0.0509	MDL	0.978	PQL	ng/Kg	J	Z

Sample ID: SL-066-SA6-SS-0.0-0.5

Collected: 7/13/2011 2:43:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	1.77	JB	0.0911	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	2.82	JB	0.0725	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	3.10	JB	0.0613	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	4.33	JB	0.0894	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.530	JB	0.0830	MDL	4.87	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

10/27/2011 7:56:29 AM

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## Data Qualifier Summary

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-066-SA6-SS-0.0-0.5

Collected: 7/13/2011 2:43:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.996	JB	0.0428	MDL	4.87	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.566	JBQ	0.0333	MDL	4.87	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.255	JBQ	0.0352	MDL	4.87	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.110	JBQ	0.0155	MDL	0.974	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0673	JQ	0.0332	MDL	0.974	PQL	ng/Kg	U	B
OCDD	7900	EB	0.177	MDL	9.74	PQL	ng/Kg	J	*XI

Sample ID: SL-067-SA6-SS-0.0-0.5

Collected: 7/13/2011 2:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.53	JB	0.0896	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.40	JB	0.0724	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.21	JB	0.0601	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.28	JB	0.0535	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.91	JB	0.0677	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.305	JB	0.0636	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.596	JBQ	0.0401	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.665	JB	0.0406	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.72	JB	0.0524	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.543	JB	0.0412	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0984	JBQ	0.0161	MDL	0.988	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.224	J	0.0510	MDL	0.988	PQL	ng/Kg	J	Z

Sample ID: SL-098-SA6-SS-0.0-0.5

Collected: 7/12/2011 8:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.44	JB	0.0535	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.320	JBQ	0.0658	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.177	JB	0.0503	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.491	JB	0.0380	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.490	JB	0.0513	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.247	JBQ	0.0368	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.341	JB	0.0477	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0892	JB	0.0388	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.124	JBQ	0.0213	MDL	5.05	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-098-SA6-SS-0.0-0.5

**Collected:** 7/12/2011 8:42:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.923	JB	0.0412	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.256	JB	0.0356	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0208	JBQ	0.0128	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.292	J	0.0688	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	4.58	JB	0.109	MDL	10.1	PQL	ng/Kg	J	Z

**Sample ID:** SL-109-SA6-SS-0.0-0.5

**Collected:** 7/12/2011 9:43:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.72	JB	0.126	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.585	JB	0.0774	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.58	JB	0.0855	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.87	JB	0.0807	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.951	JB	0.0852	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.11	JB	0.0769	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.216	JBQ	0.0893	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.548	JB	0.0343	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.22	JB	0.0782	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.49	JB	0.0863	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0776	JB	0.0196	MDL	1.02	PQL	ng/Kg	U	B

**Sample ID:** SL-110-SA6-SS-0.0-0.5

**Collected:** 7/12/2011 10:20:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	3.66	JB	0.0948	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	4.05	JB	0.0874	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.865	JB	0.0942	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.85	JB	0.0607	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.68	JB	0.0743	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.64	JB	0.0795	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.14	JB	0.0710	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.249	JB	0.0165	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.619	J	0.0977	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	15000	EB	0.309	MDL	10.1	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-113-SA6-SS-0.0-0.5

Collected: 7/12/2011 12:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	3.53	JB	0.177	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	4.13	JB	0.106	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	1.12	JB	0.136	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.24	JB	0.0716	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.350	JBQ	0.0675	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.05	JB	0.0614	MDL	5.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.170	JB	0.0221	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.516	J	0.0930	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	18800	EB	0.407	MDL	10.3	PQL	ng/Kg	J	*XI

Sample ID: SL-278-SA6-SS-0.0-0.5

Collected: 7/13/2011 9:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	10900	EB	1.13	MDL	5.03	PQL	ng/Kg	J	*XI
1,2,3,7,8-PECDD	4.59	JB	0.297	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.94	JB	0.142	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.616	JB	0.0838	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	135000	EB	0.784	MDL	10.1	PQL	ng/Kg	J	*XI

Sample ID: SL-279-SA6-SS-0.0-0.5

Collected: 7/13/2011 7:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.01	JBQ	0.138	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.642	JB	0.0720	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	1.02	JB	0.0634	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.05	JB	0.0742	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.520	JB	0.0579	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.920	JB	0.0693	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.208	JBQ	0.0764	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.305	JBQ	0.0369	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.88	JB	0.0616	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.569	JB	0.0630	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.561	JB	0.0630	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0541	JBQ	0.0166	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.582	J	0.140	MDL	1.01	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-280-SA6-SS-0.0-0.5

Collected: 7/12/2011 3:43:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.674	JC	0.0802	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-280-SA6-SS-0.0-0.5

Collected: 7/12/2011 3:43:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.58	JB	0.112	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.69	JB	0.0927	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.33	JB	0.0870	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.422	JB	0.106	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.81	JB	0.0850	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.45	JBQ	0.0834	MDL	5.11	PQL	ng/Kg	J	Z
OCDD	7290	EB	0.193	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-281-SA6-SS-0.0-0.5

Collected: 7/12/2011 2:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.40	JB	0.128	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.28	JB	0.107	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.20	JB	0.101	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.35	JBQ	0.101	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.28	JB	0.103	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.487	JB	0.109	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.08	JB	0.0982	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.61	JB	0.0940	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.33	JB	0.135	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.233	JBQ	0.0220	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-290-SA6-SS-0.0-0.5

Collected: 7/12/2011 8:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.32	JB	0.0619	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.315	JBQ	0.0907	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.160	JBQ	0.0541	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.803	JBQ	0.0513	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.498	JB	0.0569	MDL	5.00	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-290-SA6-SS-0.0-0.5

**Collected:** 7/12/2011 8:00:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.246	JB	0.0474	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.405	JB	0.0551	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JBQ	0.0588	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.130	JB	0.0343	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.59	JB	0.0524	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.222	JB	0.0491	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.410	JB	0.0476	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0281	JBQ	0.0161	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.296	J	0.0764	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	4.26	JB	0.121	MDL	10.0	PQL	ng/Kg	J	Z

**Sample ID:** SL-291-SA6-SS-0.0-0.5

**Collected:** 7/11/2011 3:29:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.14	JB	0.0789	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.61	JB	0.0898	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.36	JB	0.0843	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.943	JB	0.0781	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.69	JB	0.102	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.85	JB	0.139	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.80	JB	0.0724	MDL	4.94	PQL	ng/Kg	J	Z

**Sample ID:** SL-300-SA6-SS-0.0-0.5

**Collected:** 7/12/2011 3:05:00

**Analysis Type:** REA

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.976	JC	0.0809	MDL	0.989	PQL	ng/Kg	J	Z

**Sample ID:** SL-300-SA6-SS-0.0-0.5

**Collected:** 7/12/2011 3:05:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.18	JB	0.0309	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.545	JB	0.0418	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.51	JB	0.0514	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.24	JB	0.0544	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.02	JB	0.0529	MDL	4.95	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-300-SA6-SS-0.0-0.5

**Collected:** 7/12/2011 3:05:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.729	JB	0.0502	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.697	JB	0.0489	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.262	JB	0.0574	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.430	JB	0.0481	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.609	JB	0.0488	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.67	JB	0.0771	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.143	JB	0.0197	MDL	0.989	PQL	ng/Kg	J	Z
OCDF	8.18	JB	0.0300	MDL	9.89	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX111

Laboratory: LL

EDD Filename: DX111\_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
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

\* denotes a non-reportable result

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

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX111

# Method Blank Outlier Report

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK1990B371537	7/21/2011 3:37:00 PM	1,2,3,4,6,7,8-HPCDD 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	4.77 pg/L 1.11 pg/L 0.617 pg/L 0.272 pg/L 0.447 pg/L 0.625 pg/L 0.360 pg/L 0.898 pg/L 0.596 pg/L 0.295 pg/L 0.321 pg/L 0.382 pg/L 0.804 pg/L 9.97 pg/L 1.09 pg/L	EB-SA6-SS-071211

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SS-071211(RES)	1,2,3,4,6,7,8-HPCDD	5.28 pg/L	5.28U pg/L
EB-SA6-SS-071211(RES)	1,2,3,4,6,7,8-HPCDF	1.25 pg/L	1.25U pg/L
EB-SA6-SS-071211(RES)	1,2,3,4,7,8-HxCDD	0.405 pg/L	0.405U pg/L
EB-SA6-SS-071211(RES)	1,2,3,4,7,8-HxCDF	0.514 pg/L	0.514U pg/L
EB-SA6-SS-071211(RES)	1,2,3,6,7,8-HxCDF	0.288 pg/L	0.288U pg/L
EB-SA6-SS-071211(RES)	1,2,3,7,8,9-HxCDD	0.642 pg/L	0.642U pg/L
EB-SA6-SS-071211(RES)	1,2,3,7,8,9-HxCDF	0.256 pg/L	0.256U pg/L
EB-SA6-SS-071211(RES)	1,2,3,7,8-PECDF	0.183 pg/L	0.183U pg/L
EB-SA6-SS-071211(RES)	2,3,4,6,7,8-HxCDF	0.597 pg/L	0.597U pg/L
EB-SA6-SS-071211(RES)	2,3,4,7,8-PECDF	0.906 pg/L	0.906U pg/L
EB-SA6-SS-071211(RES)	OCDD	10.9 pg/L	10.9U pg/L
EB-SA6-SS-071211(RES)	OCDF	1.17 pg/L	1.17U pg/L

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2060B371052	7/28/2011 10:52:00 AM	2,3,7,8-TCDF	0.0263 ng/Kg	SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-098-SA6-SS-0.0-0.5 SL-109-SA6-SS-0.0-0.5 SL-110-SA6-SS-0.0-0.5 SL-113-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-290-SA6-SS-0.0-0.5 SL-291-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5

# Method Blank Outlier Report

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2060B371804	7/26/2011 6:04:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-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	0.481 ng/Kg 0.220 ng/Kg 0.0514 ng/Kg 0.0136 ng/Kg 0.0540 ng/Kg 0.0239 ng/Kg 0.0336 ng/Kg 0.0359 ng/Kg 0.0460 ng/Kg 0.0147 ng/Kg 0.0222 ng/Kg 0.0540 ng/Kg 0.0584 ng/Kg 0.0186 ng/Kg 1.94 ng/Kg 0.225 ng/Kg	SL-030-SA6-SS-0.0-0.5 SL-035-SA6-SS-0.0-0.5 SL-040-SA6-SS-0.0-0.5 SL-059-SA6-SS-0.0-0.5 SL-066-SA6-SS-0.0-0.5 SL-067-SA6-SS-0.0-0.5 SL-098-SA6-SS-0.0-0.5 SL-109-SA6-SS-0.0-0.5 SL-110-SA6-SS-0.0-0.5 SL-113-SA6-SS-0.0-0.5 SL-278-SA6-SS-0.0-0.5 SL-279-SA6-SS-0.0-0.5 SL-280-SA6-SS-0.0-0.5 SL-281-SA6-SS-0.0-0.5 SL-290-SA6-SS-0.0-0.5 SL-291-SA6-SS-0.0-0.5 SL-300-SA6-SS-0.0-0.5
BLK2100B371502	8/1/2011 3:02:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-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	1.10 ng/Kg 0.0960 ng/Kg 0.0192 ng/Kg 0.0831 ng/Kg 0.0448 ng/Kg 0.0751 ng/Kg 0.0341 ng/Kg 0.0786 ng/Kg 0.0484 ng/Kg 0.0724 ng/Kg 0.0473 ng/Kg 0.0534 ng/Kg 0.0459 ng/Kg 0.0475 ng/Kg 6.35 ng/Kg 0.174 ng/Kg	SL-047-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-040-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0752 ng/Kg	0.0752U ng/Kg
SL-047-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.270 ng/Kg	0.270U ng/Kg
SL-047-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.112 ng/Kg	0.112U ng/Kg
SL-047-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.185 ng/Kg	0.185U ng/Kg
SL-047-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.256 ng/Kg	0.256U ng/Kg
SL-059-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.0806 ng/Kg	0.0806U ng/Kg
SL-059-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-066-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.255 ng/Kg	0.255U ng/Kg
SL-066-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-098-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.0892 ng/Kg	0.0892U ng/Kg
SL-098-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.256 ng/Kg	0.256U ng/Kg
SL-098-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0208 ng/Kg	0.0208U ng/Kg
SL-109-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.216 ng/Kg	0.216U ng/Kg
SL-109-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0776 ng/Kg	0.0776U ng/Kg
SL-279-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.208 ng/Kg	0.208U ng/Kg
SL-279-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0541 ng/Kg	0.0541U ng/Kg
SL-290-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.126 ng/Kg	0.126U ng/Kg
SL-290-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.222 ng/Kg	0.222U ng/Kg

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: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-290-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0281 ng/Kg	0.0281U ng/Kg

# Reporting Limit Outliers

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-071211	1,2,3,4,6,7,8-HPCDD	JBQ	5.28	10.8	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.25	10.8	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.405	10.8	PQL	pg/L	
	1,2,3,4,7,8-HxCDF	JBQ	0.514	10.8	PQL	pg/L	
	1,2,3,6,7,8-HxCDF	JBQ	0.288	10.8	PQL	pg/L	
	1,2,3,7,8,9-HxCDD	JBQ	0.642	10.8	PQL	pg/L	
	1,2,3,7,8,9-HxCDF	JBQ	0.256	10.8	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.183	10.8	PQL	pg/L	
	2,3,4,6,7,8-HxCDF	JBQ	0.597	10.8	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.906	10.8	PQL	pg/L	
	OCDD	JB	10.9	21.6	PQL	pg/L	
	OCDF	JBQ	1.17	21.6	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-030-SA6-SS-0.0-0.5	1,2,3,7,8,9-HxCDF	JB	1.46	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDD	JB	4.32	5.08	PQL	ng/Kg	
SL-035-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	2.69	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDF	JB	3.49	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	2.45	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	4.89	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.544	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.05	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.65	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	3.98	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.52	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.347	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.693	1.01	PQL	ng/Kg	
SL-040-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.03	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.607	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.73	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.02	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.800	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.06	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.279	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.300	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.92	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.714	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.07	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0752	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.414	1.03	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-047-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.96	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.247	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.270	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.422	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.09	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.285	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.08	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.112	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.185	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.420	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.256	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.438	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0518	0.995	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.307	0.995	PQL	ng/Kg	
	OCDF	JB	8.79	9.95	PQL	ng/Kg	
SL-059-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.683	4.89	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.476	4.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.41	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.50	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.398	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.799	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0806	4.89	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.165	4.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.52	4.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.368	4.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.420	4.89	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0749	0.978	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.249	0.978	PQL	ng/Kg	
SL-066-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	1.77	4.87	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	2.82	4.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.10	4.87	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	4.33	4.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.530	4.87	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.996	4.87	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.566	4.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.255	4.87	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.110	0.974	PQL	ng/Kg	
SL-067-SA6-SS-0.0-0.5	2,3,7,8-TCDF	JQ	0.0673	0.974	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	3.53	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.40	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.21	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.28	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.91	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.305	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.596	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.665	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.72	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.543	4.94	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0984	0.988	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.224	0.988	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-098-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.44	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.320	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.177	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.491	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.490	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.247	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.341	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0892	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.124	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.923	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.256	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0208	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.292	1.01	PQL	ng/Kg	
	OCDF	JB	4.58	10.1	PQL	ng/Kg	
SL-109-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.72	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.585	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.58	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.87	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.951	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.11	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.216	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.548	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.22	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.49	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0776	1.02	PQL	ng/Kg	
SL-110-SA6-SS-0.0-0.5	1,2,3,4,7,8-HXCDF	JB	3.66	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	4.05	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.865	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.85	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.68	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.64	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.14	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.249	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.619	1.01	PQL	ng/Kg	
SL-113-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	3.53	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	4.13	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.12	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.24	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.350	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.05	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.170	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.516	1.03	PQL	ng/Kg	
SL-278-SA6-SS-0.0-0.5	1,2,3,7,8-PECDD	JB	4.59	5.03	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	4.94	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.616	1.01	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-279-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.01	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.642	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.02	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.05	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.520	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.920	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.208	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.305	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.88	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.569	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.561	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0541	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.582	1.01	PQL	ng/Kg	
SL-280-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.58	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.69	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.33	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.422	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.81	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	1.45	5.11	PQL	ng/Kg	
SL-281-SA6-SS-0.0-0.5	2,3,7,8-TCDF	JC	0.674	1.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	2.40	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.28	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.20	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	1.35	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.28	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.487	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.08	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.61	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.33	5.08	PQL	ng/Kg	
SL-290-SA6-SS-0.0-0.5	2,3,7,8-TCDD	JBQ	0.233	1.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.32	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.315	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.160	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.803	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.498	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.246	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.405	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.126	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.130	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.59	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.222	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.410	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0281	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.296	1.00	PQL	ng/Kg	
	OCDF	JB	4.26	10.0	PQL	ng/Kg	
SL-291-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.14	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.61	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.36	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.943	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.69	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	3.85	4.94	PQL	ng/Kg	
SL-291-SA6-SS-0.0-0.5	2,3,4,6,7,8-HXCDF	JB	3.80	4.94	PQL	ng/Kg	

## Reporting Limit Outliers

Lab Reporting Batch ID: DX111

Laboratory: LL

EDD Filename: DX111\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-300-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.18	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.545	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	3.51	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.24	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.02	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.729	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.697	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.262	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.430	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.609	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.67	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.143	0.989	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.976	0.989	PQL	ng/Kg	
	OCDF	JB	8.18	9.89	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX112**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jul-2011	SL-072-SA6-SB-4.0-5.0	6343429	N	METHOD	1613B	III
13-Jul-2011	SL-072-SA6-SB-9.0-10.0	6343430	N	METHOD	1613B	III
13-Jul-2011	SL-116-SA6-SB-2.5-3.5	6343431	N	METHOD	1613B	III
13-Jul-2011	SL-046-SA6-SS-0.0-0.5	6344256	N	METHOD	1613B	III
13-Jul-2011	EB-SA6-SB-071311	6343436	EB	METHOD	1613B	III
13-Jul-2011	SL-118-SA6-SB-10.5-11.5	6343433	N	METHOD	1613B	III
13-Jul-2011	SL-118-SA6-SB-4.0-5.0	6343432	N	METHOD	1613B	III
13-Jul-2011	SL-083-SA6-SB-4.0-5.0	6343434	N	METHOD	1613B	III
13-Jul-2011	SL-083-SA6-SB-9.0-10.0	6343435	N	METHOD	1613B	III
14-Jul-2011	SL-051-SA6-SS-0.0-0.5	6345461	N	METHOD	1613B	III
14-Jul-2011	SL-050-SA6-SS-0.0-0.5	6345460	N	METHOD	1613B	III
14-Jul-2011	SL-055-SA6-SS-0.0-0.5	6345465	N	METHOD	1613B	III
14-Jul-2011	SL-054-SA6-SS-0.0-0.5	6345464	N	METHOD	1613B	III
14-Jul-2011	SL-053-SA6-SS-0.0-0.5	6345463	N	METHOD	1613B	III
14-Jul-2011	SL-052-SA6-SS-0.0-0.5	6345462	N	METHOD	1613B	III
14-Jul-2011	SL-060-SA6-SS-0.0-0.5	6345466	N	METHOD	1613B	III
14-Jul-2011	SL-063-SA6-SS-0.0-0.5	6345467	N	METHOD	1613B	III
14-Jul-2011	SL-064-SA6-SS-0.0-0.5	6345468	N	METHOD	1613B	III
14-Jul-2011	SL-037-SA6-SS-0.0-0.5	6345457	N	METHOD	1613B	III
14-Jul-2011	SL-049-SA6-SS-0.0-0.5	6345459	N	METHOD	1613B	III
14-Jul-2011	SL-048-SA6-SS-0.0-0.5	6345458	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**



# Data Qualifier Summary

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: AQ

Sample ID: EB-SA6-SB-071311

Collected: 7/13/2011 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.30	JB	0.354	MDL	9.90	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.693	JB	0.0993	MDL	9.90	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.237	JBQ	0.126	MDL	9.90	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.270	JBQ	0.216	MDL	9.90	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDF	0.309	JBQ	0.115	MDL	9.90	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDD	0.367	JBQ	0.217	MDL	9.90	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.158	JBQ	0.115	MDL	9.90	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDD	0.520	JBQ	0.204	MDL	9.90	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	0.331	JBQ	0.131	MDL	9.90	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.436	JBQ	0.119	MDL	9.90	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.468	JBQ	0.110	MDL	9.90	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.599	JBQ	0.103	MDL	9.90	PQL	pg/L	U	B
OCDD	10.3	JB	0.336	MDL	19.8	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-037-SA6-SS-0.0-0.5

Collected: 7/14/2011 1:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.64	JB	0.0273	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.564	JB	0.0139	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.109	JBQ	0.0226	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.130	J	0.0296	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.248	JB	0.0240	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.247	JB	0.0299	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.143	JB	0.0206	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.241	JB	0.0297	MDL	4.95	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.134	J	0.0236	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.138	JQ	0.0228	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.225	JBQ	0.0193	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.176	JB	0.0218	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.335	JB	0.0181	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0774	JQ	0.0220	MDL	0.990	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-037-SA6-SS-0.0-0.5

Collected: 7/14/2011 1:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.158	JQ	0.0341	MDL	0.990	PQL	ng/Kg	J	Z
OCDF	1.06	JB	0.0286	MDL	9.90	PQL	ng/Kg	J	Z

Sample ID: SL-046-SA6-SS-0.0-0.5

Collected: 7/13/2011 10:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.832	JB	0.0848	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.677	J	0.0923	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.25	JB	0.0737	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.09	JB	0.0960	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.448	JBQ	0.0657	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.28	JB	0.0973	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.186	J	0.0851	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.278	JQ	0.0521	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.833	JB	0.0540	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.561	JB	0.0732	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.757	JB	0.0539	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0661	J	0.0368	MDL	0.990	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.457	J	0.0817	MDL	0.990	PQL	ng/Kg	J	Z

Sample ID: SL-048-SA6-SS-0.0-0.5

Collected: 7/14/2011 3:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.02	JB	0.0175	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.222	JB	0.0298	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.179	J	0.0459	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.625	JB	0.0376	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.613	JB	0.0448	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.197	JBQ	0.0330	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.441	JB	0.0431	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.111	J	0.0380	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.122	J	0.0278	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.700	JBQ	0.0337	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.200	JB	0.0345	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0402	JQ	0.0277	MDL	0.996	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-048-SA6-SS-0.0-0.5

Collected: 7/14/2011 3:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.224	JQ	0.0656	MDL	0.996	PQL	ng/Kg	J	Z

Sample ID: SL-049-SA6-SS-0.0-0.5

Collected: 7/14/2011 2:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.17	JB	0.0167	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.306	JB	0.0242	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.367	J	0.0374	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.280	JB	0.0289	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.564	JB	0.0368	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.298	JB	0.0269	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.726	JB	0.0368	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.334	J	0.0312	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.331	JQ	0.0271	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.268	JBQ	0.0179	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.321	JB	0.0276	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.326	JB	0.0170	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0442	JQ	0.0272	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0848	JQ	0.0317	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	2.91	JB	0.0274	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-050-SA6-SS-0.0-0.5

Collected: 7/14/2011 8:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.911	JB	0.0595	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.546	JB	0.0378	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.480	JB	0.0353	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.96	JB	0.0758	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.154	J	0.0409	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.12	JQ	0.0632	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.404	JB	0.0329	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.577	JBQ	0.0368	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.406	JB	0.0313	MDL	5.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.301	J	0.0436	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.178	J	0.0664	MDL	1.01	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-051-SA6-SS-0.0-0.5

Collected: 7/14/2011 8:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.20	JB	0.0218	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.347	JB	0.0352	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.359	J	0.0469	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.534	JB	0.0314	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.46	JB	0.0482	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.352	JBQ	0.0278	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.22	JB	0.0457	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.118	JQ	0.0346	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.312	J	0.0403	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.190	JB	0.0340	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.272	JBQ	0.0294	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.712	JB	0.0336	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0457	JQ	0.0286	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.330	JQ	0.0716	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	7.68	JB	0.0284	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-052-SA6-SS-0.0-0.5

Collected: 7/14/2011 10:17:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.82	JB	0.0501	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.578	J	0.0532	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.64	JB	0.0570	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.59	JB	0.0536	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.93	JB	0.0511	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.430	J	0.0738	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.309	J	0.0515	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.40	JB	0.0561	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.07	JBQ	0.0856	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0332	JQ	0.0273	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-053-SA6-SS-0.0-0.5

Collected: 7/14/2011 9:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.89	JB	0.0251	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.392	JB	0.0419	MDL	4.97	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-053-SA6-SS-0.0-0.5

Collected: 7/14/2011 9:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.291	J	0.0485	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.327	JBQ	0.0343	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.22	JB	0.0484	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.244	JBQ	0.0298	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.944	JB	0.0482	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.109	JQ	0.0356	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.266	JQ	0.0339	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.221	JB	0.0246	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.267	JBQ	0.0314	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.359	JBQ	0.0249	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0396	JQ	0.0334	MDL	0.994	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.138	JQ	0.0507	MDL	0.994	PQL	ng/Kg	J	Z
OCDF	9.23	JB	0.0344	MDL	9.94	PQL	ng/Kg	J	Z

Sample ID: SL-054-SA6-SS-0.0-0.5

Collected: 7/14/2011 9:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.580	JB	0.0603	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.407	JQ	0.0610	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.567	JBQ	0.0542	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.74	JB	0.0627	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.357	JB	0.0477	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.02	JB	0.0636	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.109	JQ	0.0643	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.277	J	0.0434	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.521	JB	0.0434	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.442	JB	0.0517	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.529	JBQ	0.0431	MDL	5.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0688	JQ	0.0402	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.306	J	0.0883	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-055-SA6-SS-0.0-0.5

Collected: 7/14/2011 8:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.98	JB	0.0208	MDL	5.03	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-055-SA6-SS-0.0-0.5

Collected: 7/14/2011 8:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.364	JB	0.0390	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.278	J	0.0493	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.399	JB	0.0349	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.15	JB	0.0489	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.328	JB	0.0304	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.913	JB	0.0463	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.151	JQ	0.0401	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.194	J	0.0322	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.369	JB	0.0343	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.298	JB	0.0335	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.596	JB	0.0344	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0545	JQ	0.0337	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.287	JQ	0.0827	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	6.88	JB	0.0395	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-060-SA6-SS-0.0-0.5

Collected: 7/14/2011 10:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.77	JB	0.0546	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.961	J	0.0567	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	1.42	JB	0.0444	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	4.40	JB	0.0576	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.972	JB	0.0408	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.96	JB	0.0577	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.232	J	0.0466	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.541	JQ	0.0484	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.698	JB	0.0498	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.25	JB	0.0424	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.947	JB	0.0476	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0809	JQ	0.0320	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.696	J	0.114	MDL	1.01	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-063-SA6-SS-0.0-0.5

Collected: 7/14/2011 11:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3620	EB	0.407	MDL	5.14	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	3.28	J	0.215	MDL	5.14	PQL	ng/Kg	J	Z
OCDD	48000	EB	0.447	MDL	10.3	PQL	ng/Kg	J	*XI

Sample ID: SL-064-SA6-SS-0.0-0.5

Collected: 7/14/2011 1:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.83	JB	0.103	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.99	J	0.0752	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.41	JB	0.0591	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.87	JB	0.0540	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.415	J	0.0666	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.35	J	0.0738	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.891	JB	0.0415	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.14	JB	0.0556	MDL	5.11	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.818	JB	0.0429	MDL	5.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.268	J	0.0336	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.413	J	0.0805	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-072-SA6-SB-4.0-5.0

Collected: 7/13/2011 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.27	JB	0.0662	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	2.22	JB	0.0266	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.142	JBQ	0.0386	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0446	JB	0.0329	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.194	JBQ	0.0315	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0351	JBQ	0.0301	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.103	JBQ	0.0314	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0549	JB	0.0304	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0759	JBQ	0.0214	MDL	5.56	PQL	ng/Kg	U	B
OCDF	9.54	JB	0.0399	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-072-SA6-SB-9.0-10.0

Collected: 7/13/2011 8:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.473	JB	0.0359	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0757	JBQ	0.0124	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0166	JBQ	0.0161	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0455	JB	0.0254	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0463	JQ	0.0421	MDL	5.69	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0320	JBQ	0.0255	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0228	JBQ	0.0162	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0450	JBQ	0.0231	MDL	5.69	PQL	ng/Kg	U	B
OCDD	1.39	JB	0.0362	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.106	JB	0.0450	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-083-SA6-SB-4.0-5.0

Collected: 7/13/2011 3:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.50	JB	0.0988	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.64	J	0.100	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.29	JB	0.0905	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.770	JB	0.0847	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	3.17	JB	0.0965	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.258	JQ	0.0686	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.05	J	0.0697	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.328	JB	0.0352	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.39	JB	0.0600	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.614	JB	0.0308	MDL	5.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.260	J	0.0288	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.468	J	0.0522	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	5000	EB	0.226	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-083-SA6-SB-9.0-10.0

Collected: 7/13/2011 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.28	J	0.158	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.13	JB	0.0911	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.66	JB	0.0907	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.530	J	0.0917	MDL	5.45	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-083-SA6-SB-9.0-10.0

**Collected:** 7/13/2011 3:15:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	1.32	JB	0.0611	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.10	JB	0.0867	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.20	JB	0.0544	MDL	5.45	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.683	J	0.0367	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.846	J	0.111	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	13000	EB	0.288	MDL	10.9	PQL	ng/Kg	J	*XI

**Sample ID:** SL-116-SA6-SB-2.5-3.5

**Collected:** 7/13/2011 9:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.403	JB	0.0289	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0489	JB	0.0102	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0298	JQ	0.0204	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.0213	JBQ	0.0201	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0202	JBQ	0.0131	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0551	JBQ	0.0198	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0439	JQ	0.0360	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0636	JBQ	0.0177	MDL	5.33	PQL	ng/Kg	U	B
OCDD	0.949	JB	0.0272	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.141	JBQ	0.0348	MDL	10.7	PQL	ng/Kg	U	B

**Sample ID:** SL-118-SA6-SB-10.5-11.5

**Collected:** 7/13/2011 1:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.871	JB	0.0356	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.222	JBQ	0.0172	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0497	JB	0.0201	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0336	JB	0.0223	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0350	JBQ	0.0205	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0423	JBQ	0.0235	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.133	JBQ	0.0213	MDL	5.17	PQL	ng/Kg	U	B
OCDD	3.27	JB	0.0281	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.321	JBQ	0.0362	MDL	10.3	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-118-SA6-SB-4.0-5.0

Collected: 7/13/2011 1:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.999	JB	0.0373	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.140	JB	0.0550	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0762	JBQ	0.0344	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.277	JB	0.0450	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0667	JBQ	0.0317	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.139	JBQ	0.0425	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.266	JBQ	0.0343	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0400	JBQ	0.0331	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.205	JB	0.0314	MDL	5.57	PQL	ng/Kg	J	Z
OCDF	2.93	JB	0.0447	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_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
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

\* denotes a non-reportable result

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

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX112

# Method Blank Outlier Report

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK19908371537	7/21/2011 3:37:00 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 OCDD OCDF	4.77 pg/L 1.11 pg/L 0.617 pg/L 0.272 pg/L 0.447 pg/L 0.625 pg/L 0.360 pg/L 0.898 pg/L 0.596 pg/L 0.295 pg/L 0.321 pg/L 0.382 pg/L 0.804 pg/L 9.97 pg/L 1.09 pg/L	EB-SA6-SB-071311

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-071311(RES)	1,2,3,4,6,7,8-HPCDD	5.30 pg/L	5.30U pg/L
EB-SA6-SB-071311(RES)	1,2,3,4,6,7,8-HPCDF	0.693 pg/L	0.693U pg/L
EB-SA6-SB-071311(RES)	1,2,3,4,7,8,9-HPCDF	0.237 pg/L	0.237U pg/L
EB-SA6-SB-071311(RES)	1,2,3,4,7,8-HxCDD	0.270 pg/L	0.270U pg/L
EB-SA6-SB-071311(RES)	1,2,3,4,7,8-HxCDF	0.309 pg/L	0.309U pg/L
EB-SA6-SB-071311(RES)	1,2,3,6,7,8-HxCDD	0.367 pg/L	0.367U pg/L
EB-SA6-SB-071311(RES)	1,2,3,6,7,8-HxCDF	0.158 pg/L	0.158U pg/L
EB-SA6-SB-071311(RES)	1,2,3,7,8,9-HxCDD	0.520 pg/L	0.520U pg/L
EB-SA6-SB-071311(RES)	1,2,3,7,8,9-HxCDF	0.331 pg/L	0.331U pg/L
EB-SA6-SB-071311(RES)	1,2,3,7,8-PECDF	0.436 pg/L	0.436U pg/L
EB-SA6-SB-071311(RES)	2,3,4,6,7,8-HxCDF	0.468 pg/L	0.468U pg/L
EB-SA6-SB-071311(RES)	2,3,4,7,8-PECDF	0.599 pg/L	0.599U pg/L
EB-SA6-SB-071311(RES)	OCDD	10.3 pg/L	10.3U pg/L



# Method Blank Outlier Report

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2070B370724	7/29/2011 7:24:00 AM	1,2,3,4,6,7,8-HPCDD 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-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.365 ng/Kg 0.0647 ng/Kg 0.0217 ng/Kg 0.0221 ng/Kg 0.0231 ng/Kg 0.0227 ng/Kg 0.0584 ng/Kg 0.0259 ng/Kg 0.0195 ng/Kg 0.0391 ng/Kg 0.801 ng/Kg 0.114 ng/Kg	SL-037-SA6-SS-0.0-0.5 SL-046-SA6-SS-0.0-0.5 SL-048-SA6-SS-0.0-0.5 SL-049-SA6-SS-0.0-0.5 SL-050-SA6-SS-0.0-0.5 SL-051-SA6-SS-0.0-0.5 SL-052-SA6-SS-0.0-0.5 SL-053-SA6-SS-0.0-0.5 SL-054-SA6-SS-0.0-0.5 SL-055-SA6-SS-0.0-0.5 SL-060-SA6-SS-0.0-0.5 SL-063-SA6-SS-0.0-0.5 SL-064-SA6-SS-0.0-0.5 SL-072-SA6-SB-4.0-5.0 SL-072-SA6-SB-9.0-10.0 SL-083-SA6-SB-4.0-5.0 SL-083-SA6-SB-9.0-10.0 SL-116-SA6-SB-2.5-3.5 SL-118-SA6-SB-10.5-11.5 SL-118-SA6-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-037-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.241 ng/Kg	0.241U ng/Kg
SL-072-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0446 ng/Kg	0.0446U ng/Kg
SL-072-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0351 ng/Kg	0.0351U ng/Kg
SL-072-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.103 ng/Kg	0.103U ng/Kg
SL-072-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0549 ng/Kg	0.0549U ng/Kg
SL-072-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0759 ng/Kg	0.0759U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.473 ng/Kg	0.473U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0757 ng/Kg	0.0757U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0166 ng/Kg	0.0166U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0455 ng/Kg	0.0455U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0228 ng/Kg	0.0228U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0450 ng/Kg	0.0450U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	OCDD	1.39 ng/Kg	1.39U ng/Kg
SL-072-SA6-SB-9.0-10.0(RES)	OCDF	0.106 ng/Kg	0.106U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.403 ng/Kg	0.403U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.0213 ng/Kg	0.0213U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0202 ng/Kg	0.0202U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0551 ng/Kg	0.0551U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	OCDD	0.949 ng/Kg	0.949U ng/Kg
SL-116-SA6-SB-2.5-3.5(RES)	OCDF	0.141 ng/Kg	0.141U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	1,2,3,4,6,7,8-HPCDD	0.871 ng/Kg	0.871U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	1,2,3,4,6,7,8-HPCDF	0.222 ng/Kg	0.222U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDD	0.0497 ng/Kg	0.0497U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	1,2,3,6,7,8-HXCDF	0.0336 ng/Kg	0.0336U ng/Kg

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

10/27/2011 8:23:40 AM

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Page 2 of 3

# Method Blank Outlier Report

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-118-SA6-SB-10.5-11.5(RES)	1,2,3,7,8,9-HXCDD	0.0350 ng/Kg	0.0350U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	2,3,4,6,7,8-HXCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	2,3,4,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	OCDD	3.27 ng/Kg	3.27U ng/Kg
SL-118-SA6-SB-10.5-11.5(RES)	OCDF	0.321 ng/Kg	0.321U ng/Kg
SL-118-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0762 ng/Kg	0.0762U ng/Kg
SL-118-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-118-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.139 ng/Kg	0.139U ng/Kg
SL-118-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0400 ng/Kg	0.0400U ng/Kg

# Reporting Limit Outliers

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-071311	1,2,3,4,6,7,8-HPCDD	JB	5.30	9.90	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.693	9.90	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.237	9.90	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.270	9.90	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.309	9.90	PQL	pg/L	
	1,2,3,6,7,8-HxCDD	JBQ	0.367	9.90	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.158	9.90	PQL	pg/L	
	1,2,3,7,8,9-HxCDD	JBQ	0.520	9.90	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.331	9.90	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.436	9.90	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.468	9.90	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.599	9.90	PQL	pg/L	
	OCDD	JB	10.3	19.8	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.64	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.564	4.95	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.109	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.130	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.248	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.247	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.143	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.241	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.134	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.138	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.225	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.176	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.335	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0774	0.990	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.158	0.990	PQL	ng/Kg	
	OCDF	JB	1.06	9.90	PQL	ng/Kg	
SL-046-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.832	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.677	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.25	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.09	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.448	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.28	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.186	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.278	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.833	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.561	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.757	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0661	0.990	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.457	0.990	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-048-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.02	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.222	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.179	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.625	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.613	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.197	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.441	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.111	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.122	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.700	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.200	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0402	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.224	0.996	PQL	ng/Kg	
SL-049-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.17	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.306	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.367	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.280	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.564	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.298	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.726	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.334	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.331	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.268	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.321	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.326	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0442	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0848	1.00	PQL	ng/Kg	
	OCDF	JB	2.91	10.0	PQL	ng/Kg	
SL-050-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.911	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	0.546	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.480	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.96	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.154	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	1.12	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.404	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.577	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.406	5.06	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.301	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.178	1.01	PQL	ng/Kg	
SL-051-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.20	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.347	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.359	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.534	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.46	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.352	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.22	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.118	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.312	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.272	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.712	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0457	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.330	1.01	PQL	ng/Kg	
	OCDF	JB	7.68	10.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-052-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.82	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.578	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.64	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.59	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.93	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.430	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.309	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.40	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	2.07	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0332	1.00	PQL	ng/Kg	
SL-053-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.89	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.392	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.291	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.327	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.22	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.244	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.944	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.109	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.266	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.221	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.267	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.359	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0396	0.994	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.138	0.994	PQL	ng/Kg	
	OCDF	JB	9.23	9.94	PQL	ng/Kg	
SL-054-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.580	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JQ	0.407	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.567	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.74	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.357	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.02	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.109	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.277	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.521	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.442	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.529	5.06	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0688	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.306	1.01	PQL	ng/Kg	
SL-055-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.98	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.364	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.278	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.399	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.15	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.328	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.913	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.151	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.194	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.369	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.298	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.596	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0545	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.287	1.01	PQL	ng/Kg	
	OCDF	JB	6.88	10.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.77	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.961	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.42	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	4.40	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.972	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.96	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.232	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.541	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.698	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.25	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.947	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0809	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.696	1.01	PQL	ng/Kg	
SL-063-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	J	3.28	5.14	PQL	ng/Kg	J (all detects)
SL-064-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.83	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	2.99	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.41	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.87	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.415	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	1.35	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.891	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.14	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.818	5.11	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.268	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.413	1.02	PQL	ng/Kg	
SL-072-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	4.27	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.22	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.142	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0446	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.194	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0351	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.103	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0549	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0759	5.56	PQL	ng/Kg	
SL-072-SA6-SB-9.0-10.0	OCDF	JB	9.54	11.1	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDD	JB	0.473	5.69	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0757	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0166	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0455	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0463	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0320	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0228	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0450	5.69	PQL	ng/Kg	
SL-083-SA6-SB-4.0-5.0	OCDD	JB	1.39	11.4	PQL	ng/Kg	J (all detects)
	OCDF	JB	0.106	11.4	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	2.50	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	3.64	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.29	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.770	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.17	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.258	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	2.05	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.328	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.39	5.12	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	0.614	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.260	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.468	1.02	PQL	ng/Kg	

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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# Reporting Limit Outliers

Lab Reporting Batch ID: DX112

Laboratory: LL

EDD Filename: DX112\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA6-SB-9.0-10.0	1,2,3,4,7,8-HxCDD	J	4.28	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDF	JB	2.13	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.66	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	J	0.530	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.32	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	3.10	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.20	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.683	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.846	1.09	PQL	ng/Kg	
SL-116-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.403	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0489	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0298	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0213	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0202	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0551	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0439	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0636	5.33	PQL	ng/Kg	
	OCDD	JB	0.949	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.141	10.7	PQL	ng/Kg	
SL-118-SA6-SB-10.5-11.5	1,2,3,4,6,7,8-HPCDD	JB	0.871	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.222	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0497	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0336	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0350	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0423	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.133	5.17	PQL	ng/Kg	
	OCDD	JB	3.27	10.3	PQL	ng/Kg	
	OCDF	JBQ	0.321	10.3	PQL	ng/Kg	
SL-118-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.999	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.140	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0762	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.277	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0667	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.139	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.266	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0400	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.205	5.57	PQL	ng/Kg	
	OCDF	JB	2.93	11.1	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX113**



## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
14-Jul-2011	SL-074-SA6-SB-4.0-5.0	6345471	N	METHOD	1613B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	6345472	MS	METHOD	1613B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	6345473	MSD	METHOD	1613B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MSD	P345471M372101	MSD	METHOD	1613B	III
14-Jul-2011	SL-074-SA6-SB-4.0-5.0MS	P345471R372004	MS	METHOD	1613B	III
14-Jul-2011	DUP02-SA6-QC-071411	6345477	FD	METHOD	1613B	III
14-Jul-2011	SL-074-SA6-SB-9.0-10.0	6345474	N	METHOD	1613B	III
14-Jul-2011	SL-088-SA6-SB-4.0-5.0	6345475	N	METHOD	1613B	III
14-Jul-2011	SL-088-SA6-SB-9.0-10.0	6345476	N	METHOD	1613B	III
14-Jul-2011	SL-071-SA6-SB-4.0-5.0	6345469	N	METHOD	1613B	III
14-Jul-2011	SL-071-SA6-SB-6.0-7.0	6345470	N	METHOD	1613B	III
18-Jul-2011	SL-133-SA6-SS-0.0-0.5	6348199	N	METHOD	1613B	III
18-Jul-2011	SL-134-SA6-SS-0.0-0.5	6348200	N	METHOD	1613B	III
18-Jul-2011	SL-128-SA6-SS-0.0-0.5	6348198	N	METHOD	1613B	III
18-Jul-2011	SL-145-SA6-SS-0.0-0.5	6348203	N	METHOD	1613B	III
18-Jul-2011	SL-127-SA6-SS-0.0-0.5	6348197	N	METHOD	1613B	III
18-Jul-2011	SL-146-SA6-SS-0.0-0.5	6348204	N	METHOD	1613B	III
18-Jul-2011	SL-147-SA6-SS-0.0-0.5	6348205	N	METHOD	1613B	III
18-Jul-2011	SL-142-SA6-SS-0.0-0.5	6348201	N	METHOD	1613B	III
18-Jul-2011	SL-143-SA6-SS-0.0-0.5	6348202	N	METHOD	1613B	III
18-Jul-2011	SL-148-SA6-SS-0.0-0.5	6348206	N	METHOD	1613B	III
18-Jul-2011	SL-150-SA6-SS-0.0-0.5	6348207	N	METHOD	1613B	III
18-Jul-2011	SL-155-SA6-SS-0.0-0.5	6348209	N	METHOD	1613B	III
18-Jul-2011	SL-152-SA6-SS-0.0-0.5	6348208	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: DUP02-SA6-QC-071411

Collected: 7/14/2011 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.12	JB	0.0861	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.90	JB	0.114	MDL	5.25	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDF	1.32	JB	0.0747	MDL	5.25	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HxCDF	0.948	JB	0.0701	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.93	JB	0.115	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.283	JBQ	0.0725	MDL	5.25	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	2.93	JB	0.0614	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.407	JB	0.0483	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.44	JB	0.0661	MDL	5.25	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.942	JB	0.0461	MDL	5.25	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.341	J	0.0197	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.715	J	0.112	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	6150	EB	0.174	MDL	10.5	PQL	ng/Kg	J	*XI

Sample ID: SL-071-SA6-SB-4.0-5.0

Collected: 7/14/2011 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.12	JB	0.0674	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.589	JBQ	0.0772	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.845	JB	0.0529	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.55	JB	0.0803	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.396	JB	0.0481	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.04	JB	0.0743	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.204	JB	0.0499	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.673	JB	0.0303	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.173	JB	0.0423	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.686	JB	0.0443	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.793	JB	0.0400	MDL	5.29	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0595	JQ	0.0137	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.813	J	0.101	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-071-SA6-SB-6.0-7.0

Collected: 7/14/2011 2:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	1.00	JC	0.0475	MDL	1.07	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-071-SA6-SB-6.0-7.0

Collected: 7/14/2011 2:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.38	JB	0.155	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	3.57	JB	0.118	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	2.11	JB	0.109	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.988	JB	0.101	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.561	JB	0.0624	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	3.81	JB	0.0917	MDL	5.35	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.28	JB	0.0591	MDL	5.35	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.679	J	0.0344	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-074-SA6-SB-4.0-5.0

Collected: 7/14/2011 8:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.905	JC	0.0558	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-074-SA6-SB-4.0-5.0

Collected: 7/14/2011 8:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	423	B	0.314	MDL	5.13	PQL	ng/Kg	J	Q, Q
1,2,3,4,7,8,9-HPCDF	4.56	JB	0.110	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.19	JB	0.143	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDF	2.66	JB	0.109	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HxCDF	1.46	JB	0.107	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.80	JB	0.145	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.662	JB	0.101	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	4.06	JB	0.0918	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.380	JBQ	0.0627	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	2.53	JB	0.0925	MDL	5.13	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	1.31	JB	0.0582	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.299	JQ	0.0281	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	7280	EB	0.232	MDL	10.3	PQL	ng/Kg	J	*XI

Sample ID: SL-074-SA6-SB-9.0-10.0

Collected: 7/14/2011 8:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.11	JB	0.0766	MDL	5.42	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-074-SA6-SB-9.0-10.0

Collected: 7/14/2011 8:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	1.59	JB	0.102	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	1.72	JB	0.0610	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	4.57	JB	0.107	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	1.02	JB	0.0611	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.91	JB	0.102	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.62	JB	0.0578	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.880	JB	0.0441	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.47	JB	0.0537	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.25	JB	0.0404	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.132	J	0.0209	MDL	1.08	PQL	ng/Kg	J	Z

Sample ID: SL-088-SA6-SB-4.0-5.0

Collected: 7/14/2011 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.697	JB	0.0807	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.331	JB	0.0687	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.924	JB	0.0748	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.51	JB	0.0734	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.365	JB	0.0716	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.743	JB	0.0702	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.212	JB	0.0524	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.591	JB	0.0278	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.148	JBQ	0.0379	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.439	JB	0.0445	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.540	JB	0.0373	MDL	5.36	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0880	JQ	0.0214	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.426	J	0.0783	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-088-SA6-SB-9.0-10.0

Collected: 7/14/2011 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.471	JB	0.0284	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0987	JBQ	0.00903	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0569	JB	0.0168	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0457	JBQ	0.0149	MDL	5.17	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-088-SA6-SB-9.0-10.0

**Collected:** 7/14/2011 10:55:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0798	JB	0.0215	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0725	JBQ	0.0153	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0655	JB	0.0181	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0547	JBQ	0.0146	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0762	JB	0.0226	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0822	JBQ	0.0168	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0766	JB	0.0104	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.123	JBQ	0.0173	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.162	JB	0.0105	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0343	JQ	0.0159	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0206	JQ	0.0134	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	1.94	JB	0.0335	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.181	JB	0.0366	MDL	10.3	PQL	ng/Kg	U	B

**Sample ID:** SL-127-SA6-SS-0.0-0.5

**Collected:** 7/18/2011 9:42:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.584	JBQ	0.0429	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.344	JB	0.0600	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.78	JB	0.0584	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.01	JB	0.0627	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.539	JB	0.0557	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.719	JB	0.0582	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.285	JB	0.0424	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.164	JB	0.0250	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.141	JB	0.0302	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.544	JB	0.0373	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.646	JB	0.0271	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0522	J	0.0156	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.228	JQ	0.0533	MDL	1.01	PQL	ng/Kg	J	Z

**Sample ID:** SL-128-SA6-SS-0.0-0.5

**Collected:** 7/18/2011 9:14:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.598	JBQ	0.0466	MDL	5.02	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-128-SA6-SS-0.0-0.5

Collected: 7/18/2011 9:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.306	JBQ	0.0568	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	1.08	JB	0.0441	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.962	JB	0.0598	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.337	JB	0.0424	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.571	JB	0.0573	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.207	JB	0.0403	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.164	JBQ	0.0214	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0924	JB	0.0182	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.404	JB	0.0329	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.307	JB	0.0192	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0697	J	0.0308	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	9.05	JB	0.0445	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-133-SA6-SS-0.0-0.5

Collected: 7/18/2011 7:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.509	JB	0.0368	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.162	JB	0.0465	MDL	4.86	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	2.11	JB	0.0451	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.716	JB	0.0496	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.452	JBQ	0.0421	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.389	JB	0.0484	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.225	JB	0.0437	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.150	JBQ	0.0172	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.119	JB	0.0228	MDL	4.86	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.454	JB	0.0357	MDL	4.86	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.664	JB	0.0223	MDL	4.86	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0788	J	0.0133	MDL	0.972	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.126	J	0.0399	MDL	0.972	PQL	ng/Kg	J	Z
OCDF	6.61	JB	0.0418	MDL	9.72	PQL	ng/Kg	J	Z

Sample ID: SL-134-SA6-SS-0.0-0.5

Collected: 7/18/2011 8:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.91	JB	0.0281	MDL	5.00	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-134-SA6-SS-0.0-0.5

Collected: 7/18/2011 8:29:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.500	JB	0.0371	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.175	JB	0.0467	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	3.62	JB	0.0714	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.790	JB	0.0473	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.521	JB	0.0695	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.492	JB	0.0464	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.263	JB	0.0778	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.154	JBQ	0.0320	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.63	JB	0.0637	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.477	JB	0.0712	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.00	JB	0.0618	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.264	JQ	0.0156	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.449	J	0.116	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	8.11	JB	0.0325	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-142-SA6-SS-0.0-0.5

Collected: 7/18/2011 10:43:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.457	JBQ	0.0423	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.428	JBQ	0.0586	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.78	JB	0.0490	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.11	JB	0.0602	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.437	JB	0.0471	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.794	JB	0.0585	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.202	JB	0.0496	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.285	JB	0.0316	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.434	JB	0.0417	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.478	JB	0.0464	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.682	JB	0.0398	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.273	JQ	0.0183	MDL	0.996	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.463	JQ	0.0802	MDL	0.996	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-143-SA6-SS-0.0-0.5

Collected: 7/18/2011 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.19	JB	0.0384	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.446	JBQ	0.0539	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.190	JBQ	0.0494	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	1.87	JB	0.0426	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.832	JB	0.0518	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.373	JB	0.0401	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.503	JBQ	0.0506	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.188	JB	0.0310	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.187	JB	0.0297	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.456	JB	0.0387	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.608	JB	0.0307	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.125	JQ	0.0146	MDL	0.998	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.238	J	0.0538	MDL	0.998	PQL	ng/Kg	J	Z
OCDF	7.18	JB	0.0494	MDL	9.98	PQL	ng/Kg	J	Z

Sample ID: SL-145-SA6-SS-0.0-0.5

Collected: 7/18/2011 9:33:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.19	JBQ	0.0737	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.276	JB	0.0473	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.29	JB	0.0502	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	1.20	JB	0.0585	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.606	JBQ	0.0418	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.558	JB	0.0489	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.182	JB	0.0218	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.381	JB	0.0353	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.28	JB	0.0423	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.70	JB	0.0341	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.293	JQ	0.0148	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.356	J	0.0558	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-146-SA6-SS-0.0-0.5

Collected: 7/18/2011 10:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.45	JB	0.0632	MDL	5.03	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-146-SA6-SS-0.0-0.5

Collected: 7/18/2011 10:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.471	JBQ	0.0558	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	4.52	JB	0.0595	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.79	JB	0.0570	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	1.10	JBQ	0.0569	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.895	JB	0.0554	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.444	JB	0.0626	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.343	JBQ	0.0274	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.430	JB	0.0581	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.25	JB	0.0542	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.95	JB	0.0547	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0937	JQ	0.0145	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.706	J	0.116	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-147-SA6-SS-0.0-0.5

Collected: 7/18/2011 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.506	JB	0.0275	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.380	JB	0.0332	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	1.83	JB	0.0288	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.22	JB	0.0340	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.443	JB	0.0274	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.795	JB	0.0341	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.205	JB	0.0276	MDL	4.88	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.333	JB	0.0303	MDL	4.88	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.348	JBQ	0.0283	MDL	4.88	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.472	JB	0.0248	MDL	4.88	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.641	JB	0.0254	MDL	4.88	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.383	J	0.0195	MDL	0.976	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.423	J	0.0482	MDL	0.976	PQL	ng/Kg	J	Z
OCDF	8.56	JB	0.0219	MDL	9.76	PQL	ng/Kg	J	Z

Sample ID: SL-148-SA6-SS-0.0-0.5

Collected: 7/18/2011 11:40:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.911	JC	0.0503	MDL	1.00	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-148-SA6-SS-0.0-0.5

Collected: 7/18/2011 11:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.35	JB	0.0740	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.654	JB	0.0796	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.64	JB	0.0810	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.31	JB	0.0869	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.976	JB	0.0822	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.31	JB	0.0793	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.453	JB	0.0584	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.380	JBQ	0.0405	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.404	JB	0.0708	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.12	JB	0.0524	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.40	JB	0.0704	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0687	JQ	0.0173	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-150-SA6-SS-0.0-0.5

Collected: 7/18/2011 12:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.610	JB	0.0654	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.355	JB	0.0523	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.25	JB	0.0753	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.11	JB	0.0565	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.426	JB	0.0736	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.761	JB	0.0525	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.223	JB	0.0639	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.246	JB	0.0297	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.176	JB	0.0500	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.511	JB	0.0493	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.882	JB	0.0500	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0834	JQ	0.0143	MDL	0.995	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.654	JQ	0.105	MDL	0.995	PQL	ng/Kg	J	Z

Sample ID: SL-152-SA6-SS-0.0-0.5

Collected: 7/18/2011 3:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.76	JB	0.0432	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.289	JBQ	0.0628	MDL	4.99	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-152-SA6-SS-0.0-0.5

Collected: 7/18/2011 3:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.239	JBQ	0.0508	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.461	JB	0.0472	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.789	JB	0.0544	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.180	JBQ	0.0414	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.712	JB	0.0417	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.144	JBQ	0.0398	MDL	4.99	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.157	JBQ	0.0217	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.116	JB	0.0178	MDL	4.99	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.213	JB	0.0295	MDL	4.99	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.208	JB	0.0198	MDL	4.99	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0340	J	0.0140	MDL	0.997	PQL	ng/Kg	J	Z
OCDF	6.57	JB	0.0507	MDL	9.97	PQL	ng/Kg	J	Z

Sample ID: SL-155-SA6-SS-0.0-0.5

Collected: 7/18/2011 2:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.37	JB	0.0215	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.176	JBQ	0.0357	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.415	JB	0.0545	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.342	JBQ	0.0298	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.960	JB	0.0559	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.175	JB	0.0266	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.953	JB	0.0525	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.262	JBQ	0.0317	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.253	JB	0.0285	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.133	JB	0.0210	MDL	4.93	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.200	JB	0.0255	MDL	4.93	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.293	JB	0.0225	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0356	JQ	0.0144	MDL	0.986	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.232	J	0.0379	MDL	0.986	PQL	ng/Kg	J	Z
OCDF	6.23	JB	0.0359	MDL	9.86	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_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
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* 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

DX113

# Method Blank Outlier Report

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: PrepDX113\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2080B371029	8/5/2011 10:29:00 AM	2,3,7,8-TCDF	0.0552 ng/Kg	SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-148-SA6-SS-0.0-0.5
BLK2080B371316	7/29/2011 1:16:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8-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-HXCDD 1,2,3,7,8-HXCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.905 ng/Kg 0.0836 ng/Kg 0.0469 ng/Kg 0.0394 ng/Kg 0.0405 ng/Kg 0.0632 ng/Kg 0.0381 ng/Kg 0.0739 ng/Kg 0.0439 ng/Kg 0.0291 ng/Kg 0.0313 ng/Kg 0.0445 ng/Kg 0.0505 ng/Kg 4.79 ng/Kg 0.136 ng/Kg	DUP02-SA6-QC-071411 SL-071-SA6-SB-4.0-5.0 SL-071-SA6-SB-6.0-7.0 SL-074-SA6-SB-4.0-5.0 SL-074-SA6-SB-9.0-10.0 SL-088-SA6-SB-4.0-5.0 SL-088-SA6-SB-9.0-10.0 SL-127-SA6-SS-0.0-0.5 SL-128-SA6-SS-0.0-0.5 SL-133-SA6-SS-0.0-0.5 SL-134-SA6-SS-0.0-0.5 SL-142-SA6-SS-0.0-0.5 SL-143-SA6-SS-0.0-0.5 SL-145-SA6-SS-0.0-0.5 SL-146-SA6-SS-0.0-0.5 SL-147-SA6-SS-0.0-0.5 SL-148-SA6-SS-0.0-0.5 SL-150-SA6-SS-0.0-0.5 SL-152-SA6-SS-0.0-0.5 SL-155-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-071-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.204 ng/Kg	0.204U ng/Kg
SL-088-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-088-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.148 ng/Kg	0.148U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.471 ng/Kg	0.471U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0987 ng/Kg	0.0987U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0457 ng/Kg	0.0457U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0798 ng/Kg	0.0798U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0725 ng/Kg	0.0725U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0655 ng/Kg	0.0655U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0547 ng/Kg	0.0547U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0762 ng/Kg	0.0762U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0822 ng/Kg	0.0822U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0766 ng/Kg	0.0766U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX113

EDD Filename: PrepDX113\_v1

Laboratory: LL

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-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.123 ng/Kg	0.123U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.162 ng/Kg	0.162U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	OCDD	1.94 ng/Kg	1.94U ng/Kg
SL-088-SA6-SB-9.0-10.0(RES)	OCDF	0.181 ng/Kg	0.181U ng/Kg
SL-127-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.141 ng/Kg	0.141U ng/Kg
SL-128-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.207 ng/Kg	0.207U ng/Kg
SL-128-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-133-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.162 ng/Kg	0.162U ng/Kg
SL-133-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.119 ng/Kg	0.119U ng/Kg
SL-134-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.175 ng/Kg	0.175U ng/Kg
SL-142-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.202 ng/Kg	0.202U ng/Kg
SL-143-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.190 ng/Kg	0.190U ng/Kg
SL-147-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.205 ng/Kg	0.205U ng/Kg
SL-152-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-152-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.144 ng/Kg	0.144U ng/Kg
SL-152-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.116 ng/Kg	0.116U ng/Kg
SL-152-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.213 ng/Kg	0.213U ng/Kg
SL-152-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.208 ng/Kg	0.208U ng/Kg
SL-155-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.176 ng/Kg	0.176U ng/Kg
SL-155-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.175 ng/Kg	0.175U ng/Kg
SL-155-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-155-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.200 ng/Kg	0.200U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: DX113\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-074-SA6-SB-4.0-5.0MS SL-074-SA6-SB-4.0-5.0MSD (SL-074-SA6-SB-4.0-5.0)	1,2,3,4,6,7,8-HPCDD OCDD	-195 -2301	-124 -1694	40.00-135.00 40.00-135.00	30 (20.00) 44 (20.00)	1,2,3,4,6,7,8-HPCDD OCDD	J (all detects) R (all non-detects) OCDD No Qual, >4x

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: DX113

Laboratory: LL

EDD Filename: DX113\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
MOISTURE	7.0	6.8	3		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-074-SA6-SB-4.0-5.0	DUP02-SA6-QC-071411			
1,2,3,4,6,7,8-HPCDD	423	312	30	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	43.9	32.2	31	50.00	
1,2,3,4,7,8,9-HPCDF	4.56	3.12	37	50.00	
1,2,3,6,7,8-HXCDD	9.65	7.58	24	50.00	
1,2,3,6,7,8-HXCDF	1.46	0.948	43	50.00	
1,2,3,7,8,9-HXCDD	3.80	2.93	26	50.00	
1,2,3,7,8-PECDD	4.06	2.93	32	50.00	
1,2,3,7,8-PECDF	0.380	0.407	7	50.00	
2,3,4,7,8-PECDF	1.31	0.942	33	50.00	
2,3,7,8-TCDD	0.299	0.341	13	50.00	
2,3,7,8-TCDF	0.905	0.715	23	50.00	
OCDD	7280	6150	17	50.00	
OCDF	132	98.8	29	50.00	
1,2,3,4,7,8-HxCDD	2.19	3.90	56	50.00	J(all detects)
1,2,3,4,7,8-HxCDF	2.66	1.32	67	50.00	
1,2,3,7,8,9-HXCDF	0.662	0.283	80	50.00	
2,3,4,6,7,8-HXCDF	2.53	1.44	55	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: DX113\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP02-SA6-QC-071411	1,2,3,4,7,8,9-HPCDF	JB	3.12	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	3.90	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.32	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.948	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.93	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.283	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.93	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.407	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.44	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.942	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.341	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.715	1.05	PQL	ng/Kg	
SL-071-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.12	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.589	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.845	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.55	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.396	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.04	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.204	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.673	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.173	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.686	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.793	5.29	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0595	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.813	1.06	PQL	ng/Kg	
SL-071-SA6-SB-6.0-7.0	1,2,3,4,7,8-HxCDD	JB	4.38	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HXCDF	JB	3.57	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.11	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.988	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.561	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.81	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.28	5.35	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.679	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	1.00	1.07	PQL	ng/Kg	
SL-074-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	4.56	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.19	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.66	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.46	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.80	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.662	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.06	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.380	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.53	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.31	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.299	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.905	1.03	PQL	ng/Kg	
SL-074-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	2.11	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.59	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.72	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	4.57	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.02	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.91	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.62	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.880	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.47	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.25	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.132	1.08	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: DX113\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-088-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.697	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.331	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.924	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.51	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.365	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.743	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.212	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.591	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.148	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.439	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.540	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0880	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.426	1.07	PQL	ng/Kg	
SL-088-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.471	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0987	5.17	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0569	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0457	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0798	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0725	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0655	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0547	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0762	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0822	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0766	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.123	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.162	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0343	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0206	1.03	PQL	ng/Kg	
SL-127-SA6-SS-0.0-0.5	OCDD	JB	1.94	10.3	PQL	ng/Kg	J (all detects)
	OCDF	JB	0.181	10.3	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.584	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.344	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.78	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.01	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.539	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.719	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.285	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.164	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.141	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.544	5.03	PQL	ng/Kg	
SL-128-SA6-SS-0.0-0.5	2,3,4,7,8-PECDF	JB	0.646	5.03	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.0522	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.228	1.01	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.598	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.306	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.08	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.962	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.337	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.571	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.207	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.164	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0924	5.02	PQL	ng/Kg	
SL-128-SA6-SS-0.0-0.5	2,3,4,6,7,8-HXCDF	JB	0.404	5.02	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	0.307	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0697	1.00	PQL	ng/Kg	
	OCDF	JB	9.05	10.0	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: DX113\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-133-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.509	4.86	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.162	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.11	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.716	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.452	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.389	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.225	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.150	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.119	4.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.454	4.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.664	4.86	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0788	0.972	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.126	0.972	PQL	ng/Kg	
	OCDF	JB	6.61	9.72	PQL	ng/Kg	
SL-134-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.91	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.500	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.175	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.62	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.790	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.521	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.492	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.263	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.154	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.63	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.477	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.00	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.264	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.449	1.00	PQL	ng/Kg	
	OCDF	JB	8.11	10.0	PQL	ng/Kg	
SL-142-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.457	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.428	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.78	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.11	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.437	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.794	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.202	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.285	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.434	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.478	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.682	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.273	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.463	0.996	PQL	ng/Kg	
SL-143-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.19	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.446	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.190	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.87	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.832	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.373	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.503	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.188	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.187	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.456	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.608	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.125	0.998	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.238	0.998	PQL	ng/Kg	
	OCDF	JB	7.18	9.98	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: DX113\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-145-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.19	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.276	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.29	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.20	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.606	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.558	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.182	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.381	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.28	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.70	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.293	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.356	1.00	PQL	ng/Kg	
SL-146-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.45	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.471	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.52	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.79	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	1.10	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.895	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.444	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.343	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.430	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.25	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.95	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0937	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.706	1.01	PQL	ng/Kg	
SL-147-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.506	4.88	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.380	4.88	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.83	4.88	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.22	4.88	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.443	4.88	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.795	4.88	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.205	4.88	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.333	4.88	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.348	4.88	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.472	4.88	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.641	4.88	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.383	0.976	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.423	0.976	PQL	ng/Kg	
	OCDF	JB	8.56	9.76	PQL	ng/Kg	
SL-148-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.35	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.654	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.64	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.31	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.976	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.31	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.453	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.380	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.404	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.12	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.40	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0687	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.911	1.00	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX113

Laboratory: LL

EDD Filename: DX113\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-150-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.610	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.355	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	2.25	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.11	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.426	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.761	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.223	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.246	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.176	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.511	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.882	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0834	0.995	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.654	0.995	PQL	ng/Kg	
SL-152-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.76	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.289	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.239	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.461	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.789	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.180	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.712	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.144	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.157	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.116	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.213	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.208	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0340	0.997	PQL	ng/Kg	
	OCDF	JB	6.57	9.97	PQL	ng/Kg	
SL-155-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.37	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.176	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.415	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.342	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.960	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.175	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.953	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.262	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.253	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.133	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.200	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.293	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0356	0.986	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.232	0.986	PQL	ng/Kg	
	OCDF	JB	6.23	9.86	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX114**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Jul-2011	SL-058-SA6-SS-0.0-0.5	6347008	N	METHOD	1613B	III
13-Jul-2011	SL-056-SA6-SS-0.0-0.5	6347007	N	METHOD	1613B	III
14-Jul-2011	SL-043-SA6-SS-0.0-0.5	6346997	N	METHOD	1613B	III
14-Jul-2011	SL-044-SA6-SS-0.0-0.5	6346998	N	METHOD	1613B	III
14-Jul-2011	SL-302-SA6-SS-0.0-0.5	6347000	N	METHOD	1613B	III
14-Jul-2011	SL-303-SA6-SS-0.0-0.5	6347001	N	METHOD	1613B	III
14-Jul-2011	SL-304-SA6-SS-0.0-0.5	6347002	N	METHOD	1613B	III
14-Jul-2011	SL-005-SA6-SS-0.0-0.5	6346994	N	METHOD	1613B	III
14-Jul-2011	SL-004-SA6-SS-0.0-0.5	6346993	N	METHOD	1613B	III
14-Jul-2011	SL-020-SA6-SS-0.0-0.5	6346995	N	METHOD	1613B	III
14-Jul-2011	SL-029-SA6-SS-0.0-0.5	6346996	N	METHOD	1613B	III
14-Jul-2011	SL-126-SA6-SS-0.0-0.5	6346999	N	METHOD	1613B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5	6347003	N	METHOD	1613B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	6347004	MS	METHOD	1613B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	6347005	MSD	METHOD	1613B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MSD	P347003M371219	MSD	METHOD	1613B	III
14-Jul-2011	SL-286-SA6-SS-0.0-0.5MS	P347003R372300	MS	METHOD	1613B	III
14-Jul-2011	DUP03-SA6-QC-071511	6347006	FD	METHOD	1613B	III
18-Jul-2011	SL-293-SA6-SS-0.0-0.5	6348214	N	METHOD	1613B	III
18-Jul-2011	SL-176-SA6-SS-0.0-0.5	6348210	N	METHOD	1613B	III
18-Jul-2011	SL-182-SA6-SS-0.0-0.5	6348211	N	METHOD	1613B	III
18-Jul-2011	SL-183-SA6-SS-0.0-0.5	6348212	N	METHOD	1613B	III
18-Jul-2011	SL-184-SA6-SS-0.0-0.5	6348213	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: DUP03-SA6-QC-071511

Collected: 7/14/2011 2:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	50.6	B	0.106	MDL	4.98	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	7.54	B	0.0409	MDL	4.98	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	0.779	JBQ	0.0733	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.454	JB	0.0846	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	2.94	JB	0.0710	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.26	JB	0.0848	MDL	4.98	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HxCDF	0.757	JB	0.0619	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.815	JB	0.0835	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.339	JB	0.0820	MDL	4.98	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.214	JBQ	0.0298	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.84	JB	0.0602	MDL	4.98	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HxCDF	0.640	JB	0.0687	MDL	4.98	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	1.21	JB	0.0647	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0368	JQ	0.0140	MDL	0.996	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.659	JB	0.127	MDL	0.996	PQL	ng/Kg	J	Z
OCDD	593	B	0.0945	MDL	9.96	PQL	ng/Kg	J	FD
OCDF	15.4	B	0.0529	MDL	9.96	PQL	ng/Kg	J	FD

Sample ID: SL-004-SA6-SS-0.0-0.5

Collected: 7/14/2011 11:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	2.08	JB	0.0945	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	3.89	JB	0.0869	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	3.01	JB	0.0801	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	4.87	JB	0.0977	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.724	JB	0.0834	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.996	JB	0.0506	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.25	JB	0.0612	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	4.79	JB	0.0728	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.88	JB	0.0611	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0866	JQ	0.0155	MDL	0.989	PQL	ng/Kg	J	Z
OCDD	8530	EB	0.165	MDL	9.89	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-005-SA6-SS-0.0-0.5

Collected: 7/14/2011 10:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.14	JB	0.0800	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.60	JB	0.0954	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.44	JB	0.0928	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	1.45	JB	0.169	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.12	JB	0.136	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	4.72	JB	0.145	MDL	4.96	PQL	ng/Kg	J	Z

Sample ID: SL-020-SA6-SS-0.0-0.5

Collected: 7/14/2011 12:57:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4970	EB	0.581	MDL	5.11	PQL	ng/Kg	J	*XI
OCDD	64000	EB	0.392	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-029-SA6-SS-0.0-0.5

Collected: 7/14/2011 1:26:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.05	JB	0.0815	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.699	JB	0.0752	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	4.23	JB	0.0877	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.18	JB	0.0780	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	1.07	JB	0.0729	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.52	JB	0.0706	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.327	JB	0.0915	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.387	JBQ	0.0469	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.48	JB	0.0647	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.09	JB	0.0618	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.13	JB	0.0759	MDL	4.92	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0595	J	0.0190	MDL	0.985	PQL	ng/Kg	J	Z

Sample ID: SL-043-SA6-SS-0.0-0.5

Collected: 7/14/2011 7:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.422	JB	0.0542	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.731	JB	0.0716	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.860	JB	0.0547	MDL	5.04	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-043-SA6-SS-0.0-0.5

Collected: 7/14/2011 7:41:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	2.36	JB	0.0741	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.475	JB	0.0474	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.77	JB	0.0690	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.495	JB	0.0459	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.416	JBQ	0.0320	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.228	JBQ	0.0210	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.542	JB	0.0385	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.533	JB	0.0220	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0818	JQ	0.0149	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.128	JB	0.0230	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-044-SA6-SS-0.0-0.5

Collected: 7/14/2011 8:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.83	JB	0.103	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.57	JB	0.0883	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.28	JB	0.0792	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.38	JB	0.0733	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.83	JB	0.0830	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.00	JB	0.0666	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.48	JB	0.0371	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.00	JB	0.0696	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.66	JB	0.0381	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.332	J	0.0171	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.337	JB	0.0346	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	6250	EB	0.181	MDL	10.1	PQL	ng/Kg	J	*XI

Sample ID: SL-056-SA6-SS-0.0-0.5

Collected: 7/13/2011 3:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.924	JBQ	0.0601	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.206	JB	0.0534	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.715	JB	0.0549	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.57	JB	0.0833	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.481	JB	0.0518	MDL	5.04	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-056-SA6-SS-0.0-0.5

Collected: 7/13/2011 3:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.441	JBQ	0.124	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.269	JBQ	0.0641	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.33	JB	0.0912	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0237	JQ	0.0168	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-058-SA6-SS-0.0-0.5

Collected: 7/13/2011 3:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.29	JB	0.0932	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.537	JB	0.0784	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.39	JB	0.0614	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.44	JB	0.0818	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.774	JB	0.0501	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.58	JB	0.0767	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.157	JB	0.0752	MDL	4.94	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.252	JB	0.0262	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.802	JB	0.0357	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.929	JB	0.0566	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.429	JB	0.0405	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0637	JQ	0.0123	MDL	0.988	PQL	ng/Kg	J	Z

Sample ID: SL-126-SA6-SS-0.0-0.5

Collected: 7/14/2011 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.727	JB	0.0527	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.702	JB	0.0547	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.32	JB	0.0502	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.86	JB	0.0571	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.531	JB	0.0476	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.45	JB	0.0571	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.179	JB	0.0448	MDL	4.89	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.424	JB	0.0313	MDL	4.89	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.443	JB	0.0390	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.540	JB	0.0403	MDL	4.89	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.690	JB	0.0372	MDL	4.89	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-126-SA6-SS-0.0-0.5

Collected: 7/14/2011 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0554	J	0.0131	MDL	0.978	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.672	JB	0.0823	MDL	0.978	PQL	ng/Kg	J	Z

Sample ID: SL-176-SA6-SS-0.0-0.5

Collected: 7/18/2011 2:34:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.41	JB	0.0235	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.191	JB	0.0386	MDL	4.81	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.247	JB	0.0514	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.460	JB	0.0376	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.819	JB	0.0535	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.223	JBQ	0.0357	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.723	JB	0.0505	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0438	MDL	4.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.223	JB	0.0280	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.396	JB	0.0312	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.268	JB	0.0367	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.380	JB	0.0316	MDL	4.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0366	JQ	0.0133	MDL	0.962	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.207	JB	0.0446	MDL	0.962	PQL	ng/Kg	J	Z
OCDF	5.26	JB	0.0306	MDL	9.62	PQL	ng/Kg	J	Z

Sample ID: SL-182-SA6-SS-0.0-0.5

Collected: 7/18/2011 2:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.884	JB	0.0358	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	JB	0.0354	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.595	JB	0.0241	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	3.13	JB	0.0354	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.457	JB	0.0234	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.37	JB	0.0331	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.177	JB	0.0268	MDL	4.95	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.635	JB	0.0384	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.246	JB	0.0201	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.483	JB	0.0233	MDL	4.95	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-182-SA6-SS-0.0-0.5

Collected: 7/18/2011 2:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.331	JB	0.0187	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0483	JQ	0.0226	MDL	0.990	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.107	JBQ	0.0325	MDL	0.990	PQL	ng/Kg	J	Z

Sample ID: SL-183-SA6-SS-0.0-0.5

Collected: 7/18/2011 3:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.90	JB	0.0187	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.305	JB	0.0310	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.380	JB	0.0355	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.247	JB	0.0204	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.932	JB	0.0360	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.201	JB	0.0183	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.802	JB	0.0356	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0846	JB	0.0211	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.232	JBQ	0.0265	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.107	JBQ	0.0139	MDL	4.92	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.243	JB	0.0189	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.167	JB	0.0136	MDL	4.92	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0521	JQ	0.0192	MDL	0.985	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0433	JBQ	0.0214	MDL	0.985	PQL	ng/Kg	U	B
OCDF	9.28	JB	0.0314	MDL	9.85	PQL	ng/Kg	J	Z

Sample ID: SL-184-SA6-SS-0.0-0.5

Collected: 7/18/2011 3:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.01	JB	0.0508	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.792	JB	0.0357	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.78	JB	0.0403	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.59	JB	0.0351	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.711	JB	0.0361	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.68	JB	0.0348	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.178	JB	0.0400	MDL	4.81	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.461	JB	0.0404	MDL	4.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.728	JB	0.0359	MDL	4.81	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-184-SA6-SS-0.0-0.5

Collected: 7/18/2011 3:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.904	JB	0.0352	MDL	4.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.955	JB	0.0372	MDL	4.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0873	JQ	0.0235	MDL	0.961	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.598	JB	0.0801	MDL	0.961	PQL	ng/Kg	J	Z

Sample ID: SL-286-SA6-SS-0.0-0.5

Collected: 7/14/2011 2:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	147	B	0.147	MDL	4.99	PQL	ng/Kg	J	Q, FD
1,2,3,4,6,7,8-HPCDF	17.7	B	0.0396	MDL	4.99	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	1.27	JB	0.0684	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.526	JB	0.0528	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.34	JB	0.0750	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.20	JB	0.0552	MDL	4.99	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	1.13	JB	0.0645	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.898	JB	0.0519	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0804	U	0.0804	MDL	4.99	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	0.210	JB	0.0318	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.70	JB	0.0569	MDL	4.99	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	1.14	JB	0.0640	MDL	4.99	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	1.30	JB	0.0616	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0432	JQ	0.0131	MDL	0.999	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.765	JB	0.120	MDL	0.999	PQL	ng/Kg	J	Z
OCDD	2100	B	0.0955	MDL	9.99	PQL	ng/Kg	J	FD
OCDF	32.2	B	0.0431	MDL	9.99	PQL	ng/Kg	J	FD

Sample ID: SL-293-SA6-SS-0.0-0.5

Collected: 7/18/2011 8:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.25	JB	0.0168	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.230	JB	0.0279	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.142	JB	0.0340	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.917	JB	0.0308	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.528	JB	0.0336	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.219	JBQ	0.0270	MDL	4.93	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-293-SA6-SS-0.0-0.5

Collected: 7/18/2011 8:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.383	JB	0.0334	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.108	JBQ	0.0338	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.361	JB	0.0261	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.315	JB	0.0239	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.234	JB	0.0277	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.240	JB	0.0239	MDL	4.93	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.102	JQ	0.0248	MDL	0.985	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0948	JB	0.0442	MDL	0.985	PQL	ng/Kg	J	Z
OCDF	3.58	JB	0.0317	MDL	9.85	PQL	ng/Kg	J	Z

Sample ID: SL-302-SA6-SS-0.0-0.5

Collected: 7/14/2011 8:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.89	JB	0.136	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	4.43	JB	0.0812	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	3.88	JB	0.111	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.60	JB	0.127	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.40	JB	0.0748	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.62	JB	0.0895	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.39	JB	0.0749	MDL	5.12	PQL	ng/Kg	J	Z
OCDD	7830	EB	0.187	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-303-SA6-SS-0.0-0.5

Collected: 7/14/2011 8:55:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.885	JBCQ	0.0673	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-303-SA6-SS-0.0-0.5

Collected: 7/14/2011 8:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.84	JB	0.0884	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.84	JB	0.112	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.48	JB	0.0885	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.40	JB	0.0853	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.54	JB	0.100	MDL	5.09	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-303-SA6-SS-0.0-0.5

**Collected:** 7/14/2011 8:55:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	1.59	JB	0.0867	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.31	JB	0.0799	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.41	JB	0.0855	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.464	J	0.0298	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	5780	EB	0.154	MDL	10.2	PQL	ng/Kg	J	*XI

**Sample ID:** SL-304-SA6-SS-0.0-0.5

**Collected:** 7/14/2011 9:14:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.49	JB	0.114	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.57	JB	0.0927	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.31	JB	0.0828	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.77	JB	0.0709	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.38	JB	0.0983	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.33	JB	0.0893	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.941	JB	0.0690	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.91	JB	0.0806	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.97	JB	0.0724	MDL	5.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.250	J	0.0274	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.723	JB	0.136	MDL	1.02	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX114

Laboratory: LL

EDD Filename: DX114\_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
*XI	Compound Quantitation and CRQLs
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

\* denotes a non-reportable result

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: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX114

# Method Blank Outlier Report

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2090B372004	7/30/2011 8:04:00 PM	1,2,3,4,6,7,8-HPCDD 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	0.228 ng/Kg 0.0803 ng/Kg 0.0699 ng/Kg 0.0135 ng/Kg 0.0396 ng/Kg 0.0232 ng/Kg 0.0322 ng/Kg 0.0330 ng/Kg 0.0241 ng/Kg 0.0727 ng/Kg 0.0309 ng/Kg 0.0241 ng/Kg 0.0357 ng/Kg 0.0487 ng/Kg 0.0129 ng/Kg 0.485 ng/Kg 0.177 ng/Kg	DUP03-SA6-QC-071511 SL-004-SA6-SS-0.0-0.5 SL-005-SA6-SS-0.0-0.5 SL-020-SA6-SS-0.0-0.5 SL-029-SA6-SS-0.0-0.5 SL-043-SA6-SS-0.0-0.5 SL-044-SA6-SS-0.0-0.5 SL-056-SA6-SS-0.0-0.5 SL-058-SA6-SS-0.0-0.5 SL-126-SA6-SS-0.0-0.5 SL-176-SA6-SS-0.0-0.5 SL-182-SA6-SS-0.0-0.5 SL-183-SA6-SS-0.0-0.5 SL-184-SA6-SS-0.0-0.5 SL-286-SA6-SS-0.0-0.5 SL-293-SA6-SS-0.0-0.5 SL-302-SA6-SS-0.0-0.5 SL-303-SA6-SS-0.0-0.5 SL-304-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP03-SA6-QC-071511(RES)	1,2,3,7,8,9-HxCDF	0.339 ng/Kg	0.339U ng/Kg
SL-029-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.327 ng/Kg	0.327U ng/Kg
SL-058-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.157 ng/Kg	0.157U ng/Kg
SL-126-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.179 ng/Kg	0.179U ng/Kg
SL-176-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-176-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.135 ng/Kg	0.135U ng/Kg
SL-182-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.177 ng/Kg	0.177U ng/Kg
SL-183-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.305 ng/Kg	0.305U ng/Kg
SL-183-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-183-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.107 ng/Kg	0.107U ng/Kg
SL-183-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.167 ng/Kg	0.167U ng/Kg
SL-183-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-184-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.178 ng/Kg	0.178U ng/Kg
SL-293-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-293-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.108 ng/Kg	0.108U ng/Kg
SL-293-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.240 ng/Kg	0.240U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-286-SA6-SS-0.0-0.5MS SL-286-SA6-SS-0.0-0.5MSD (SL-286-SA6-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDD OCDD	-11 -682	-19 -721	40.00-135.00 40.00-135.00	- -	1,2,3,4,6,7,8-HPCDD OCDD	J (all detects) R (all non-detects) OCDD, No Qual, >4x

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
MOISTURE	0.88	0.81	8		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-286-SA6-SS-0.0-0.5	DUP03-SA6-QC-071511			
1,2,3,4,7,8,9-HPCDF	1.27	0.779	48	50.00	No Qualifiers Applied
1,2,3,4,7,8-HxCDD	0.526	0.454	15	50.00	
1,2,3,4,7,8-HXCDF	3.34	2.94	13	50.00	
1,2,3,6,7,8-HXCDF	1.13	0.757	40	50.00	
1,2,3,7,8,9-HxCDD	0.898	0.815	10	50.00	
1,2,3,7,8-PECDD	0.210	0.214	2	50.00	
2,3,4,7,8-PECDF	1.30	1.21	7	50.00	
2,3,7,8-TCDD	0.0432	0.0368	16	50.00	
2,3,7,8-TCDF	0.765	0.659	15	50.00	
1,2,3,4,6,7,8-HPCDD	147	50.6	98	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	17.7	7.54	81	50.00	
1,2,3,6,7,8-HxCDD	2.20	1.26	54	50.00	
1,2,3,7,8,9-HXCDF	4.99 U	0.339	200	50.00	
1,2,3,7,8-PECDF	1.70	2.84	50	50.00	
2,3,4,6,7,8-HXCDF	1.14	0.640	56	50.00	
OCDD	2100	593	112	50.00	
OCDF	32.2	15.4	71	50.00	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP03-SA6-QC-071511	1,2,3,4,7,8,9-HPCDF	JBQ	0.779	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.454	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	2.94	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.26	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.757	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.815	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.339	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.214	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.84	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.640	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.21	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0368	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.659	0.996	PQL	ng/Kg	
SL-004-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	2.08	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDF	JB	3.89	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	3.01	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	4.87	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.724	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.996	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.25	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	4.79	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.88	4.95	PQL	ng/Kg	
SL-005-SA6-SS-0.0-0.5	2,3,7,8-TCDD	JQ	0.0866	0.989	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	3.14	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.60	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.44	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	1.45	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.12	4.96	PQL	ng/Kg	
SL-029-SA6-SS-0.0-0.5	2,3,4,6,7,8-HxCDF	JB	4.72	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	1.05	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.699	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	4.23	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.18	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.07	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.52	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.327	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.387	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.48	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.09	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.13	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0595	0.985	PQL	ng/Kg	
SL-043-SA6-SS-0.0-0.5	2,3,7,8-TCDF	JB	0.128	1.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.422	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.731	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.860	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.36	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.475	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.77	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.495	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.416	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.228	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.542	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.533	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0818	1.01	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-044-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.83	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	4.57	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.28	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.38	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.83	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.00	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.48	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.00	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.66	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.332	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.337	1.01	PQL	ng/Kg	
SL-056-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.924	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.206	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.715	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.57	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.481	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.441	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.269	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.33	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0237	1.01	PQL	ng/Kg	
SL-058-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.29	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.537	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.39	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.44	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.774	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.58	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.157	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.252	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.802	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.929	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.429	4.94	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0637	0.988	PQL	ng/Kg	
SL-126-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.727	4.89	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.702	4.89	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.32	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.86	4.89	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.531	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.45	4.89	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.179	4.89	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.424	4.89	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.443	4.89	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.540	4.89	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.690	4.89	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0554	0.978	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.672	0.978	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-176-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.41	4.81	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.191	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.247	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.460	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.819	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.223	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.723	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.135	4.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.223	4.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.396	4.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.268	4.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.380	4.81	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0366	0.962	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.207	0.962	PQL	ng/Kg	
	OCDF	JB	5.26	9.62	PQL	ng/Kg	
SL-182-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.884	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.08	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.595	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	3.13	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.457	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.37	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.177	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.635	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.246	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.483	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.331	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0483	0.990	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.107	0.990	PQL	ng/Kg	
SL-183-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.90	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.305	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.380	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.247	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.932	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.201	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.802	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0846	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.232	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.107	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.243	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.167	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0521	0.985	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0433	0.985	PQL	ng/Kg	
	OCDF	JB	9.28	9.85	PQL	ng/Kg	
SL-184-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.01	4.81	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.792	4.81	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.78	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.59	4.81	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.711	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.68	4.81	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.178	4.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.461	4.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.728	4.81	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.904	4.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.955	4.81	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0873	0.961	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.598	0.961	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX114

Laboratory: LL

EDD Filename: DX114\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-286-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.27	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.526	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.34	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.20	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.13	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.898	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.210	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.70	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.14	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.30	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0432	0.999	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.765	0.999	PQL	ng/Kg	
SL-293-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.25	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.230	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.142	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.917	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.528	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.219	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.383	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.108	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.361	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.315	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.234	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.240	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.102	0.985	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0948	0.985	PQL	ng/Kg	
	OCDF	JB	3.58	9.85	PQL	ng/Kg	
SL-302-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.89	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	4.43	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	3.88	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.60	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.40	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	4.62	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.39	5.12	PQL	ng/Kg	
SL-303-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.84	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	4.84	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.48	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	3.40	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.54	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.59	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.31	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.41	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.464	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JBCQ	0.885	1.02	PQL	ng/Kg	
SL-304-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.49	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.57	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.31	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.77	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.38	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.33	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.941	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.91	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.97	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.250	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.723	1.02	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX115**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Jul-2011	SL-301-SA6-SS-0.0-0.5	6349749	N	METHOD	1613B	IV
19-Jul-2011	SL-174-SA6-SS-0.0-0.5	6349746	N	METHOD	1613B	IV
19-Jul-2011	SL-178-SA6-SS-0.0-0.5	6349747	N	METHOD	1613B	IV
19-Jul-2011	SL-185-SA6-SS-0.0-0.5	6349748	N	METHOD	1613B	IV
19-Jul-2011	SL-084-SA6-SB-4.0-5.0	6349750	N	METHOD	1613B	IV
19-Jul-2011	SL-151-SA6-SS-0.0-0.5	6349739	N	METHOD	1613B	IV
19-Jul-2011	SL-084-SA6-SB-9.0-10.0	6349751	N	METHOD	1613B	IV
19-Jul-2011	SL-154-SA6-SS-0.0-0.5	6349740	N	METHOD	1613B	IV
19-Jul-2011	SL-085-SA6-SB-4.0-5.0	6349752	N	METHOD	1613B	IV
19-Jul-2011	SL-172-SA6-SS-0.0-0.5	6349745	N	METHOD	1613B	IV
19-Jul-2011	SL-085-SA6-SB-7.0-8.0	6349753	N	METHOD	1613B	IV
19-Jul-2011	EB-SA6-SS-071911	6349754	EB	METHOD	1613B	IV
19-Jul-2011	SL-168-SA6-SS-0.0-0.5	6349742	N	METHOD	1613B	IV
19-Jul-2011	SL-169-SA6-SS-0.0-0.5	6349743	N	METHOD	1613B	IV
19-Jul-2011	SL-171-SA6-SS-0.0-0.5	6349744	N	METHOD	1613B	IV
19-Jul-2011	SL-166-SA6-SS-0.0-0.5	6349741	N	METHOD	1613B	IV
20-Jul-2011	SL-160-SA6-SS-0.0-0.5	6351934	N	METHOD	1613B	IV
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	6351935	MS	METHOD	1613B	IV
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	6351936	MSD	METHOD	1613B	IV
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MSD	P351934M372107	MSD	METHOD	1613B	IV
20-Jul-2011	SL-160-SA6-SS-0.0-0.5MS	P351934R370839	MS	METHOD	1613B	IV
20-Jul-2011	SL-156-SA6-SS-0.0-0.5	6351931	N	METHOD	1613B	IV
20-Jul-2011	SL-157-SA6-SS-0.0-0.5	6351932	N	METHOD	1613B	IV
20-Jul-2011	SL-159-SA6-SS-0.0-0.5	6351933	N	METHOD	1613B	IV

## **Attachment II**

### **Overall Data Qualification Summary**



# Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: AQ

Sample ID: EB-SA6-SS-071911

Collected: 7/19/2011 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.67	JB	0.124	MDL	9.96	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.550	JBQ	0.0524	MDL	9.96	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.319	JBQ	0.0593	MDL	9.96	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.135	JBQ	0.0883	MDL	9.96	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDF	0.238	JBQ	0.0568	MDL	9.96	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDD	0.273	JBQ	0.0918	MDL	9.96	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.163	JBQ	0.0550	MDL	9.96	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDD	0.213	JBQ	0.0921	MDL	9.96	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	0.288	JBQ	0.0464	MDL	9.96	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.149	JB	0.0495	MDL	9.96	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.104	JB	0.0519	MDL	9.96	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.309	JB	0.0456	MDL	9.96	PQL	pg/L	U	B
2,3,7,8-TCDD	0.172	JBQ	0.0915	MDL	1.99	PQL	pg/L	U	B
2,3,7,8-TCDF	0.0901	JBQ	0.0749	MDL	1.99	PQL	pg/L	U	B
OCDD	7.81	JB	0.0980	MDL	19.9	PQL	pg/L	U	B
OCDF	0.984	JB	0.105	MDL	19.9	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-084-SA6-SB-4.0-5.0

Collected: 7/19/2011 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.76	JB	0.0688	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	5.21	JB	0.100	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	1.25	JB	0.0545	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.904	JB	0.0521	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.03	JB	0.0944	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.271	JB	0.0550	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.91	JB	0.0720	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.624	JB	0.0378	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.41	JB	0.0481	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.851	JB	0.0347	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.308	J	0.0346	MDL	1.05	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-084-SA6-SB-4.0-5.0

Collected: 7/19/2011 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.965	JB	0.0778	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	5160	EB	0.191	MDL	10.5	PQL	ng/Kg	J	*XI

Sample ID: SL-084-SA6-SB-9.0-10.0

Collected: 7/19/2011 9:45:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	1.05	J BC	0.0405	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-084-SA6-SB-9.0-10.0

Collected: 7/19/2011 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.54	JB	0.0816	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.59	JB	0.0899	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.77	JB	0.0616	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.25	JB	0.0555	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	4.00	JB	0.0865	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.403	JB	0.0688	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.586	JBQ	0.0566	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.703	JB	0.0375	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.18	JB	0.0584	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.21	JB	0.0373	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.133	J	0.0300	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-085-SA6-SB-4.0-5.0

Collected: 7/19/2011 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.56	JB	0.0529	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.416	JB	0.0148	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0540	JBQ	0.0328	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0344	JBQ	0.0268	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.445	JB	0.0354	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.0896	JB	0.0281	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.109	JBQ	0.0294	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.105	JBQ	0.0280	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0532	JBQ	0.0437	MDL	5.42	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-085-SA6-SB-4.0-5.0

**Collected:** 7/19/2011 11:10:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.104	JBQ	0.0257	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.292	JBQ	0.0250	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0877	JBQ	0.0323	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.492	JBQ	0.0248	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0493	JQ	0.0317	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0522	JBQ	0.0329	MDL	1.08	PQL	ng/Kg	U	B
OCDD	12.5	B	0.0398	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.696	JB	0.0563	MDL	10.8	PQL	ng/Kg	U	B

**Sample ID:** SL-085-SA6-SB-7.0-8.0

**Collected:** 7/19/2011 11:20:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.323	JB	0.0260	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0703	JB	0.00773	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0264	JBQ	0.0158	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0264	JBQ	0.0184	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0622	JB	0.0119	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0477	JB	0.0188	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0214	JBQ	0.0103	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0253	JBQ	0.0181	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0379	JBQ	0.0113	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0280	JBQ	0.0104	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0539	JB	0.0109	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0313	JQ	0.0234	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0269	JBQ	0.0176	MDL	1.08	PQL	ng/Kg	U	B
OCDD	1.09	JB	0.0294	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.147	JB	0.0392	MDL	10.8	PQL	ng/Kg	U	B

**Sample ID:** SL-151-SA6-SS-0.0-0.5

**Collected:** 7/19/2011 9:36:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.775	JB	0.0525	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.961	JB	0.0704	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.774	JB	0.0569	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.17	JB	0.0714	MDL	4.94	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-151-SA6-SS-0.0-0.5

**Collected:** 7/19/2011 9:36:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.568	JB	0.0557	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.21	JB	0.0704	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.436	JB	0.0568	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.610	JB	0.0630	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.663	JB	0.0473	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.683	JB	0.0527	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.860	JB	0.0428	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0808	J	0.0372	MDL	0.988	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.528	JB	0.113	MDL	0.988	PQL	ng/Kg	J	Z

**Sample ID:** SL-154-SA6-SS-0.0-0.5

**Collected:** 7/19/2011 10:08:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.36	JB	0.0700	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.96	JB	0.0639	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.29	JB	0.0552	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.642	JB	0.0540	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.381	JB	0.0562	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.95	JB	0.0598	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.532	JB	0.0372	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.755	JB	0.0510	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.489	JBQ	0.0331	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.230	JQ	0.0324	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.203	JBQ	0.0624	MDL	1.00	PQL	ng/Kg	U	B

**Sample ID:** SL-156-SA6-SS-0.0-0.5

**Collected:** 7/20/2011 8:31:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.979	JB	0.0179	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0613	JB	0.0231	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.259	JB	0.0408	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0802	JBQ	0.0205	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.582	JB	0.0414	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0742	JBQ	0.0191	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.820	JB	0.0401	MDL	5.03	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

10/27/2011 9:51:39 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-156-SA6-SS-0.0-0.5

**Collected:** 7/20/2011 8:31:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.114	JBQ	0.0190	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.226	JBQ	0.0269	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0282	JBQ	0.0140	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0736	JB	0.0172	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.101	JBQ	0.0127	MDL	5.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0263	JBQ	0.0206	MDL	1.01	PQL	ng/Kg	U	B
OCDF	2.34	JB	0.0305	MDL	10.1	PQL	ng/Kg	J	Z

**Sample ID:** SL-157-SA6-SS-0.0-0.5

**Collected:** 7/20/2011 9:14:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.56	JB	0.0219	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.155	JBQ	0.0263	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.470	JB	0.0527	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.257	JB	0.0278	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.31	JB	0.0519	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.160	JB	0.0258	MDL	4.86	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	1.08	JB	0.0524	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0988	JB	0.0260	MDL	4.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.274	JB	0.0299	MDL	4.86	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0502	JBQ	0.0202	MDL	4.86	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.181	JB	0.0235	MDL	4.86	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.181	JB	0.0175	MDL	4.86	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0780	J	0.0316	MDL	0.972	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0476	JBQ	0.0329	MDL	0.972	PQL	ng/Kg	U	B
OCDF	8.41	JB	0.0456	MDL	9.72	PQL	ng/Kg	J	Z

**Sample ID:** SL-159-SA6-SS-0.0-0.5

**Collected:** 7/20/2011 9:40:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.23	JB	0.0189	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.210	JB	0.0258	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.546	JB	0.0475	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.297	JB	0.0284	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.13	JB	0.0473	MDL	5.01	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-159-SA6-SS-0.0-0.5

Collected: 7/20/2011 9:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.183	JBQ	0.0257	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.09	JB	0.0464	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.176	JBQ	0.0280	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.318	JBQ	0.0340	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0674	JBQ	0.0163	MDL	5.01	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.229	JB	0.0236	MDL	5.01	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.211	JBQ	0.0161	MDL	5.01	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0680	JQ	0.0316	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	5.82	JB	0.0431	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-160-SA6-SS-0.0-0.5

Collected: 7/20/2011 8:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.12	JB	0.0170	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.332	JB	0.0287	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.276	JB	0.0460	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.246	JB	0.0257	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.594	JB	0.0472	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.169	JB	0.0229	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.472	JB	0.0465	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.134	JBQ	0.0290	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.108	JBQ	0.0278	MDL	4.96	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0290	JBQ	0.0141	MDL	4.96	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.204	JBQ	0.0237	MDL	4.96	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.125	JBQ	0.0138	MDL	4.96	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0392	JQ	0.0287	MDL	0.992	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0274	U	0.0274	MDL	0.992	PQL	ng/Kg	UJ	FD
OCDF	6.53	JB	0.0355	MDL	9.92	PQL	ng/Kg	J	Z

Sample ID: SL-166-SA6-SS-0.0-0.5

Collected: 7/19/2011 3:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.16	JB	0.0279	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.268	JB	0.0359	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.568	JB	0.0674	MDL	5.02	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-166-SA6-SS-0.0-0.5

Collected: 7/19/2011 3:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.325	JB	0.0343	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.50	JB	0.0688	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.214	JBQ	0.0319	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.31	JB	0.0660	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.211	JBQ	0.0351	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.372	JBQ	0.0396	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0963	JBQ	0.0221	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.250	JBQ	0.0318	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.177	JB	0.0203	MDL	5.02	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0489	JQ	0.0384	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	7.06	JB	0.0357	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-168-SA6-SS-0.0-0.5

Collected: 7/19/2011 1:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.429	JB	0.0414	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.928	JB	0.0678	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.479	JB	0.0397	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.00	JB	0.0666	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.378	JB	0.0347	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.49	JB	0.0654	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.271	JB	0.0329	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.650	JB	0.0430	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.149	JBQ	0.0226	MDL	4.90	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.349	JB	0.0290	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.406	JBQ	0.0206	MDL	4.90	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.120	J	0.0270	MDL	0.979	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.174	JBQ	0.0465	MDL	0.979	PQL	ng/Kg	U	B

Sample ID: SL-169-SA6-SS-0.0-0.5

Collected: 7/19/2011 1:27:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2380	EB	0.369	MDL	4.88	PQL	ng/Kg	J	*XI
1,2,3,7,8-PECDF	4.12	JB	0.101	MDL	4.88	PQL	ng/Kg	J	Z
OCDD	71800	EB	0.726	MDL	9.77	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-171-SA6-SS-0.0-0.5

Collected: 7/19/2011 2:21:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.58	JB	0.0140	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.108	JBQ	0.0152	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.632	JB	0.0398	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.219	JBQ	0.0228	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	1.41	JB	0.0406	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.173	JB	0.0218	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.56	JB	0.0376	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.223	JBQ	0.0204	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.558	JB	0.0278	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.231	JB	0.0143	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.209	JB	0.0180	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.316	JB	0.0121	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.119	JBQ	0.0217	MDL	0.996	PQL	ng/Kg	U	B
OCDF	5.85	JB	0.0285	MDL	9.96	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA6-SS-0.0-0.5

Collected: 7/19/2011 11:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.90	JB	0.0310	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.148	JBQ	0.0356	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.329	JB	0.0585	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.590	JB	0.0410	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.38	JB	0.0575	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.193	JB	0.0396	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.901	JB	0.0573	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JB	0.0395	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.185	JBQ	0.0313	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.393	JB	0.0326	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.214	JB	0.0343	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.870	JB	0.0289	MDL	5.32	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0595	JQ	0.0254	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0594	JBQ	0.0332	MDL	1.06	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-174-SA6-SS-0.0-0.5

Collected: 7/19/2011 8:16:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.69	JB	0.0171	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.132	JBQ	0.0275	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.177	JBQ	0.0427	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.344	JB	0.0291	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.383	JB	0.0426	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JB	0.0261	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.439	JB	0.0401	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0911	JB	0.0325	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.108	JB	0.0271	MDL	4.83	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.156	JB	0.0280	MDL	4.83	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.198	JB	0.0279	MDL	4.83	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.491	JB	0.0275	MDL	4.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.128	JBQ	0.0427	MDL	0.966	PQL	ng/Kg	U	B
OCDF	4.02	JB	0.0319	MDL	9.66	PQL	ng/Kg	J	Z

Sample ID: SL-178-SA6-SS-0.0-0.5

Collected: 7/19/2011 8:40:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.792	J BC	0.0572	MDL	0.965	PQL	ng/Kg	J	Z

Sample ID: SL-178-SA6-SS-0.0-0.5

Collected: 7/19/2011 8:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	4.10	JB	0.0864	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.34	JB	0.0856	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.628	JB	0.0851	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.02	JB	0.0973	MDL	4.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.84	JB	0.0807	MDL	4.82	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.23	JB	0.0728	MDL	4.82	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.330	JQ	0.0363	MDL	0.965	PQL	ng/Kg	J	Z

Sample ID: SL-185-SA6-SS-0.0-0.5

Collected: 7/19/2011 9:21:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.63	JB	0.0247	MDL	5.22	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

10/27/2011 9:51:39 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-185-SA6-SS-0.0-0.5

Collected: 7/19/2011 9:21:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.230	JB	0.0317	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.471	JBQ	0.0528	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.619	JB	0.0423	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.14	JB	0.0538	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.320	JB	0.0408	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.02	JB	0.0518	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.139	JB	0.0447	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.269	JB	0.0371	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.773	JB	0.0501	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.328	JB	0.0386	MDL	5.22	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.71	JB	0.0451	MDL	5.22	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0385	JQ	0.0267	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.173	JB	0.0585	MDL	1.04	PQL	ng/Kg	U	B
OCDF	6.97	JB	0.0328	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-301-SA6-SS-0.0-0.5

Collected: 7/19/2011 8:01:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.463	JB	0.0487	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.684	JB	0.0584	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.84	JB	0.0612	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.45	JB	0.0607	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.473	JB	0.0532	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.69	JB	0.0608	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.322	JBQ	0.0642	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.518	JB	0.0584	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.728	JB	0.0510	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.499	JB	0.0538	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.976	JB	0.0482	MDL	5.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.140	J	0.0408	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.946	JB	0.122	MDL	1.01	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

10/27/2011 9:51:40 AM

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## Data Qualifier Summary

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_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
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

\* denotes a non-reportable result

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

10/27/2011 9:51:40 AM

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX115

# Method Blank Outlier Report

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: DX115\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2240B371404	8/16/2011 2:04:00 PM	1,2,3,4,6,7,8-HPCDD 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	3.99 pg/L 0.817 pg/L 0.551 pg/L 0.200 pg/L 0.405 pg/L 0.373 pg/L 0.218 pg/L 0.458 pg/L 0.595 pg/L 0.437 pg/L 0.280 pg/L 0.268 pg/L 0.450 pg/L 0.457 pg/L 0.139 pg/L 8.97 pg/L 1.57 pg/L	EB-SA6-SS-071911

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SS-071911(RES)	1,2,3,4,6,7,8-HPCDD	3.67 pg/L	3.67U pg/L
EB-SA6-SS-071911(RES)	1,2,3,4,6,7,8-HPCDF	0.550 pg/L	0.550U pg/L
EB-SA6-SS-071911(RES)	1,2,3,4,7,8,9-HPCDF	0.319 pg/L	0.319U pg/L
EB-SA6-SS-071911(RES)	1,2,3,4,7,8-HxCDD	0.135 pg/L	0.135U pg/L
EB-SA6-SS-071911(RES)	1,2,3,4,7,8-HxCDF	0.238 pg/L	0.238U pg/L
EB-SA6-SS-071911(RES)	1,2,3,6,7,8-HxCDD	0.273 pg/L	0.273U pg/L
EB-SA6-SS-071911(RES)	1,2,3,6,7,8-HxCDF	0.163 pg/L	0.163U pg/L
EB-SA6-SS-071911(RES)	1,2,3,7,8,9-HxCDD	0.213 pg/L	0.213U pg/L
EB-SA6-SS-071911(RES)	1,2,3,7,8,9-HxCDF	0.288 pg/L	0.288U pg/L
EB-SA6-SS-071911(RES)	1,2,3,7,8-PECDF	0.149 pg/L	0.149U pg/L
EB-SA6-SS-071911(RES)	2,3,4,6,7,8-HxCDF	0.104 pg/L	0.104U pg/L
EB-SA6-SS-071911(RES)	2,3,4,7,8-PECDF	0.309 pg/L	0.309U pg/L
EB-SA6-SS-071911(RES)	2,3,7,8-TCDD	0.172 pg/L	0.172U pg/L
EB-SA6-SS-071911(RES)	2,3,7,8-TCDF	0.0901 pg/L	0.0901U pg/L
EB-SA6-SS-071911(RES)	OCDD	7.81 pg/L	7.81U pg/L
EB-SA6-SS-071911(RES)	OCDF	0.984 pg/L	0.984U pg/L



# Method Blank Outlier Report

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: DX115\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2100B371502	8/1/2011 3:02:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-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	1.10 ng/Kg 0.0960 ng/Kg 0.0192 ng/Kg 0.0831 ng/Kg 0.0448 ng/Kg 0.0751 ng/Kg 0.0341 ng/Kg 0.0786 ng/Kg 0.0484 ng/Kg 0.0724 ng/Kg 0.0473 ng/Kg 0.0534 ng/Kg 0.0459 ng/Kg 0.0475 ng/Kg 6.35 ng/Kg 0.174 ng/Kg	SL-084-SA6-SB-4.0-5.0 SL-084-SA6-SB-9.0-10.0 SL-085-SA6-SB-4.0-5.0 SL-085-SA6-SB-7.0-8.0 SL-151-SA6-SS-0.0-0.5 SL-154-SA6-SS-0.0-0.5 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5 SL-166-SA6-SS-0.0-0.5 SL-168-SA6-SS-0.0-0.5 SL-169-SA6-SS-0.0-0.5 SL-171-SA6-SS-0.0-0.5 SL-172-SA6-SS-0.0-0.5 SL-174-SA6-SS-0.0-0.5 SL-178-SA6-SS-0.0-0.5 SL-185-SA6-SS-0.0-0.5 SL-301-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.56 ng/Kg	1.56U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.416 ng/Kg	0.416U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0540 ng/Kg	0.0540U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0344 ng/Kg	0.0344U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0896 ng/Kg	0.0896U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.109 ng/Kg	0.109U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.105 ng/Kg	0.105U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0532 ng/Kg	0.0532U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.104 ng/Kg	0.104U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0877 ng/Kg	0.0877U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	OCDD	12.5 ng/Kg	12.5U ng/Kg
SL-085-SA6-SB-4.0-5.0(RES)	OCDF	0.696 ng/Kg	0.696U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.323 ng/Kg	0.323U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0703 ng/Kg	0.0703U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0264 ng/Kg	0.0264U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDD	0.0264 ng/Kg	0.0264U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,4,7,8-HxCDF	0.0622 ng/Kg	0.0622U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,6,7,8-HxCDD	0.0477 ng/Kg	0.0477U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,6,7,8-HxCDF	0.0214 ng/Kg	0.0214U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,7,8,9-HxCDD	0.0253 ng/Kg	0.0253U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0379 ng/Kg	0.0379U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	2,3,4,6,7,8-HxCDF	0.0280 ng/Kg	0.0280U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0539 ng/Kg	0.0539U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	2,3,7,8-TCDF	0.0269 ng/Kg	0.0269U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg
SL-085-SA6-SB-7.0-8.0(RES)	OCDF	0.147 ng/Kg	0.147U ng/Kg

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: DX115

Laboratory: LL

EDD Filename: DX115\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-154-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.203 ng/Kg	0.203U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0613 ng/Kg	0.0613U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.259 ng/Kg	0.259U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDF	0.0802 ng/Kg	0.0802U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.0742 ng/Kg	0.0742U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.114 ng/Kg	0.114U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.226 ng/Kg	0.226U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0282 ng/Kg	0.0282U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.0736 ng/Kg	0.0736U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-156-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0263 ng/Kg	0.0263U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.160 ng/Kg	0.160U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.0988 ng/Kg	0.0988U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.274 ng/Kg	0.274U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0502 ng/Kg	0.0502U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.181 ng/Kg	0.181U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.181 ng/Kg	0.181U ng/Kg
SL-157-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-159-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.176 ng/Kg	0.176U ng/Kg
SL-159-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.318 ng/Kg	0.318U ng/Kg
SL-159-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0674 ng/Kg	0.0674U ng/Kg
SL-159-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.229 ng/Kg	0.229U ng/Kg
SL-159-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.211 ng/Kg	0.211U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.276 ng/Kg	0.276U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.169 ng/Kg	0.169U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.134 ng/Kg	0.134U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.108 ng/Kg	0.108U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0290 ng/Kg	0.0290U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.204 ng/Kg	0.204U ng/Kg
SL-160-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.125 ng/Kg	0.125U ng/Kg
SL-166-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.211 ng/Kg	0.211U ng/Kg
SL-166-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0963 ng/Kg	0.0963U ng/Kg
SL-166-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.250 ng/Kg	0.250U ng/Kg
SL-166-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.177 ng/Kg	0.177U ng/Kg
SL-168-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.149 ng/Kg	0.149U ng/Kg
SL-168-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.174 ng/Kg	0.174U ng/Kg
SL-171-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDF	0.219 ng/Kg	0.219U ng/Kg
SL-171-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.223 ng/Kg	0.223U ng/Kg
SL-171-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.231 ng/Kg	0.231U ng/Kg
SL-171-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.209 ng/Kg	0.209U ng/Kg

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: DX115

Laboratory: LL

EDD Filename: DX115\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-171-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.119 ng/Kg	0.119U ng/Kg
SL-172-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.329 ng/Kg	0.329U ng/Kg
SL-172-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.203 ng/Kg	0.203U ng/Kg
SL-172-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.185 ng/Kg	0.185U ng/Kg
SL-172-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.214 ng/Kg	0.214U ng/Kg
SL-172-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.177 ng/Kg	0.177U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.147 ng/Kg	0.147U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.0911 ng/Kg	0.0911U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.108 ng/Kg	0.108U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.156 ng/Kg	0.156U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.198 ng/Kg	0.198U ng/Kg
SL-174-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.128 ng/Kg	0.128U ng/Kg
SL-185-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.139 ng/Kg	0.139U ng/Kg
SL-185-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.269 ng/Kg	0.269U ng/Kg
SL-185-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.173 ng/Kg	0.173U ng/Kg

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: PrepDX115\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
MOISTURE	1.7	1.900000000	11		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
1,2,3,4,6,7,8-HPCDD	20.2	25.900000000	25	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	3.12	4.000000000	25	50.00	
1,2,3,4,7,8,9-HPCDF	0.332	0.340000000	2	50.00	
1,2,3,4,7,8-HxCDD	0.276	0.363000000	27	50.00	
1,2,3,4,7,8-HxCDF	0.246	0.318000000	26	50.00	
1,2,3,6,7,8-HxCDD	0.594	0.799000000	29	50.00	
1,2,3,6,7,8-HxCDF	0.169	0.184000000	8	50.00	
1,2,3,7,8,9-HxCDD	0.472	0.680000000	36	50.00	
1,2,3,7,8,9-HxCDF	0.134	0.186000000	32	50.00	
2,3,4,6,7,8-HxCDF	0.204	0.212000000	4	50.00	
2,3,4,7,8-PECDF	0.125	0.127000000	2	50.00	
2,3,7,8-TCDD	0.0392	0.050900000	26	50.00	
OCDD	302	436.000000000	36	50.00	
OCDF	6.53	8.280000000	24	50.00	
1,2,3,7,8-PECDD	0.108	0.193000000	56	50.00	J(all detects) UJ(all non-detects)
1,2,3,7,8-PECDF	0.0290	0.070300000	83	50.00	
2,3,7,8-TCDF	0.992 U	0.042000000	200	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: DX115\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SS-071911	1,2,3,4,6,7,8-HPCDD	JB	3.67	9.96	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.550	9.96	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.319	9.96	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.135	9.96	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.238	9.96	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.273	9.96	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.163	9.96	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.213	9.96	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.288	9.96	PQL	pg/L	
	1,2,3,7,8-PECDF	JB	0.149	9.96	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JB	0.104	9.96	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.309	9.96	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.172	1.99	PQL	pg/L	
	2,3,7,8-TCDF	JBQ	0.0901	1.99	PQL	pg/L	
	OCDD	JB	7.81	19.9	PQL	pg/L	
	OCDF	JB	0.984	19.9	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	2.76	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	5.21	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.25	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.904	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.03	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.271	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.91	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.624	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.41	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.851	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.308	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.965	1.05	PQL	ng/Kg	
SL-084-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	3.54	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.59	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.77	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.25	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	4.00	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.403	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.586	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.703	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.18	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.21	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.133	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	1.05	1.06	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: DX115\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-085-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.56	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.416	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0540	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0344	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.445	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0896	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.109	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.105	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0532	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.104	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.292	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0877	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.492	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0493	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0522	1.08	PQL	ng/Kg	
	OCDF	JB	0.696	10.8	PQL	ng/Kg	
SL-085-SA6-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.323	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0703	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0264	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0264	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0622	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0477	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0214	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0253	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0379	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0280	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0539	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0313	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0269	1.08	PQL	ng/Kg	
	OCDD	JB	1.09	10.8	PQL	ng/Kg	
	OCDF	JB	0.147	10.8	PQL	ng/Kg	
SL-151-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.775	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.961	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.774	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	3.17	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.568	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.21	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.436	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.610	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.663	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.683	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.860	4.94	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0808	0.988	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.528	0.988	PQL	ng/Kg	
SL-154-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.36	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.96	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.29	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.642	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.381	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.95	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.532	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.755	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.489	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.230	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.203	1.00	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: DX115\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-156-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.979	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.0613	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.259	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0802	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.582	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0742	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.820	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.114	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.226	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0282	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0736	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.101	5.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0263	1.01	PQL	ng/Kg	
	OCDF	JB	2.34	10.1	PQL	ng/Kg	
SL-157-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.56	4.86	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.155	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.470	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.257	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.31	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.160	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.08	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0988	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.274	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0502	4.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.181	4.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.181	4.86	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0780	0.972	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0476	0.972	PQL	ng/Kg	
	OCDF	JB	8.41	9.72	PQL	ng/Kg	
SL-159-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.23	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.210	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.546	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.297	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.13	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.183	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.09	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.176	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.318	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0674	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.229	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.211	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0680	1.00	PQL	ng/Kg	
	OCDF	JB	5.82	10.0	PQL	ng/Kg	
SL-160-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.12	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.332	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.276	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.246	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.594	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.169	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.472	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.134	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.108	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0290	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.204	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.125	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0392	0.992	PQL	ng/Kg	
	OCDF	JB	6.53	9.92	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: DX115\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-166-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.16	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.268	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.568	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.325	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.50	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.214	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.31	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.211	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.372	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0963	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.250	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.177	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0489	1.00	PQL	ng/Kg	
	OCDF	JB	7.06	10.0	PQL	ng/Kg	
SL-168-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.429	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.928	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.479	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	3.00	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.378	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.49	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.271	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.650	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.149	4.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.349	4.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.406	4.90	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.120	0.979	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.174	0.979	PQL	ng/Kg	
SL-169-SA6-SS-0.0-0.5	1,2,3,7,8-PECDF	JB	4.12	4.88	PQL	ng/Kg	J (all detects)
SL-171-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.58	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.108	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.632	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.219	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.41	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.173	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.56	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.223	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.558	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.231	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.209	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.316	4.98	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.119	0.996	PQL	ng/Kg	
	OCDF	JB	5.85	9.96	PQL	ng/Kg	
SL-172-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.90	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.148	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.329	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.590	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.38	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.193	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.901	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.203	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.185	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.393	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.214	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.870	5.32	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0595	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0594	1.06	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX115

Laboratory: LL

EDD Filename: DX115\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-174-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.69	4.83	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.132	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.177	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.344	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.383	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.147	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.439	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0911	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.108	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.156	4.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.198	4.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.491	4.83	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.128	0.966	PQL	ng/Kg	
	OCDF	JB	4.02	9.66	PQL	ng/Kg	
SL-178-SA6-SS-0.0-0.5	1,2,3,4,7,8-HXCDF	JB	4.10	4.82	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	3.34	4.82	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.628	4.82	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.02	4.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.84	4.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.23	4.82	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.330	0.965	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	0.792	0.965	PQL	ng/Kg	
SL-185-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.63	5.22	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.230	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.471	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.619	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.14	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.320	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.02	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.139	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.269	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.773	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.328	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.71	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0385	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.173	1.04	PQL	ng/Kg	
	OCDF	JB	6.97	10.4	PQL	ng/Kg	
SL-301-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.463	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.684	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.84	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.45	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.473	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.69	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.322	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.518	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.728	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.499	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.976	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.140	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.946	1.01	PQL	ng/Kg	

## **Enclosure II**

### **EPA Level IV Validation Reports**

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** Santa Susana Field Laboratory

**Collection Date:** July 19 through July 20, 2011

**LDC Report Date:** October 21, 2011

**Matrix:** Soil/Water

**Parameters:** Dioxins/Dibenzofurans

**Validation Level:** Level IV

**Laboratory:** Lancaster Laboratories

**Sample Delivery Group (SDG):** DX115

### Sample Identification

SL-151-SA6-SS-0.0-0.5	SL-160-SA6-SS-0.0-0.5MS
SL-154-SA6-SS-0.0-0.5	SL-160-SA6-SS-0.0-0.5MSD
SL-166-SA6-SS-0.0-0.5	
SL-168-SA6-SS-0.0-0.5	
SL-169-SA6-SS-0.0-0.5	
SL-171-SA6-SS-0.0-0.5	
SL-172-SA6-SS-0.0-0.5	
SL-174-SA6-SS-0.0-0.5	
SL-178-SA6-SS-0.0-0.5	
SL-185-SA6-SS-0.0-0.5	
SL-301-SA6-SS-0.0-0.5	
SL-084-SA6-SB-4.0-5.0	
SL-084-SA6-SB-9.0-10.0	
SL-085-SA6-SB-4.0-5.0	
SL-085-SA6-SB-7.0-8.0	
EB-SA6-SS-071911	
SL-156-SA6-SS-0.0-0.5	
SL-157-SA6-SS-0.0-0.5	
SL-159-SA6-SS-0.0-0.5	
SL-160-SA6-SS-0.0-0.5	

## Introduction

This data review covers 21 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

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

The following are definitions of the data qualifiers:

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

## **I. Technical Holding Times**

All technical holding time requirements were met.

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

## **II. HRGC/HRMS Instrument Performance Check**

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

## **III. Initial Calibration**

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

## **IV. Routine Calibration (Continuing)**

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
BLK224001	8/12/11	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.139 pg/L 0.457 pg/L 0.280 pg/L 0.450 pg/L 0.437 pg/L 0.405 pg/L 0.218 pg/L 0.268 pg/L 0.200 pg/L 0.373 pg/L 0.458 pg/L 0.595 pg/L 0.817 pg/L 3.99 pg/L 0.551 pg/L 8.97 pg/L 1.57 pg/L	All water samples in SDG DX115
BLK210001	8/12/11	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0475 ng/Kg 0.0473 ng/Kg 0.0459 ng/Kg 0.0724 ng/Kg 0.0448 ng/Kg 0.0341 ng/Kg 0.0534 ng/Kg 0.0831 ng/Kg 0.0751 ng/Kg 0.0786 ng/Kg 0.0484 ng/Kg 0.0960 ng/Kg 1.10 ng/Kg 0.0192 ng/Kg 6.35 ng/Kg 0.174 ng/Kg	All soil samples in SDG DX115

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

Sample	Compound	Reported Concentration	Modified Final Concentration
EB-SA6-SS-071911	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0901 pg/L 0.172 pg/L 0.149 pg/L 0.309 pg/L 0.238 pg/L 0.163 pg/L 0.104 pg/L 0.135 pg/L 0.273 pg/L 0.213 pg/L 0.288 pg/L 0.550 pg/L 3.67 pg/L 0.319 pg/L 7.81 pg/L 0.984 pg/L	0.0901U pg/L 0.172U pg/L 0.149U pg/L 0.309U pg/L 0.238U pg/L 0.163U pg/L 0.104U pg/L 0.135U pg/L 0.273U pg/L 0.213U pg/L 0.288U pg/L 0.550U pg/L 3.67U pg/L 0.319U pg/L 7.81U pg/L 0.984U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-154-SA6-SS-0.0-0.5	2,3,7,8-TCDF	0.203 ng/Kg	0.203U ng/Kg
SL-166-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0963 ng/Kg 0.177 ng/Kg 0.250 ng/Kg 0.211 ng/Kg	0.0963U ng/Kg 0.177U ng/Kg 0.250U ng/Kg 0.211U ng/Kg
SL-168-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF	0.174 ng/Kg 0.149 ng/Kg	0.174U ng/Kg 0.149U ng/Kg
SL-171-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.119 ng/Kg 0.231 ng/Kg 0.219 ng/Kg 0.209 ng/Kg 0.223 ng/Kg	0.119U ng/Kg 0.231U ng/Kg 0.219U ng/Kg 0.209U ng/Kg 0.223U ng/Kg
SL-172-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0594 ng/Kg 0.185 ng/Kg 0.214 ng/Kg 0.203 ng/Kg	0.0594U ng/Kg 0.185U ng/Kg 0.214U ng/Kg 0.203U ng/Kg
SL-174-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF	0.128 ng/Kg 0.156 ng/Kg 0.108 ng/Kg 0.198 ng/Kg 0.177 ng/Kg 0.0911 ng/Kg	0.128U ng/Kg 0.156U ng/Kg 0.108U ng/Kg 0.198U ng/Kg 0.177U ng/Kg 0.0911U ng/Kg
SL-185-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 1,2,3,7,8,9-HxCDF	0.173 ng/Kg 0.269 ng/Kg 0.139 ng/Kg	0.173U ng/Kg 0.269U ng/Kg 0.139U ng/Kg
SL-085-SA6-SB-4.0-5.0	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0522 ng/Kg 0.104 ng/Kg 0.109 ng/Kg 0.0877 ng/Kg 0.0344 ng/Kg 0.0896 ng/Kg 0.105 ng/Kg 0.0532 ng/Kg 0.416 ng/Kg 1.56 ng/Kg 0.0540 ng/Kg 12.5 ng/Kg 0.696 ng/Kg	0.0522U ng/Kg 0.104U ng/Kg 0.109U ng/Kg 0.0877U ng/Kg 0.0344U ng/Kg 0.0896U ng/Kg 0.105U ng/Kg 0.0532U ng/Kg 0.416U ng/Kg 1.56U ng/Kg 0.0540U ng/Kg 12.5U ng/Kg 0.696U ng/Kg
SL-085-SA6-SB-7.0-8.0	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0269 ng/Kg 0.0379 ng/Kg 0.0539 ng/Kg 0.0622 ng/Kg 0.0214 ng/Kg 0.0280 ng/Kg 0.0264 ng/Kg 0.0477 ng/Kg 0.0253 ng/Kg 0.0703 ng/Kg 0.323 ng/Kg 0.0264 ng/Kg 1.09 ng/Kg 0.147 ng/Kg	0.0269U ng/Kg 0.0379U ng/Kg 0.0539U ng/Kg 0.0622U ng/Kg 0.0214U ng/Kg 0.0280U ng/Kg 0.0264U ng/Kg 0.0477U ng/Kg 0.0253U ng/Kg 0.0703U ng/Kg 0.323U ng/Kg 0.0264U ng/Kg 1.09U ng/Kg 0.147U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-156-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0263 ng/Kg 0.0282 ng/Kg 0.101 ng/Kg 0.226 ng/Kg 0.0802 ng/Kg 0.0742 ng/Kg 0.0736 ng/Kg 0.259 ng/Kg 0.114 ng/Kg 0.0613 ng/Kg	0.0263U ng/Kg 0.0282U ng/Kg 0.101U ng/Kg 0.226U ng/Kg 0.0802U ng/Kg 0.0742U ng/Kg 0.0736U ng/Kg 0.259U ng/Kg 0.114U ng/Kg 0.0613U ng/Kg
SL-157-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0476 ng/Kg 0.0502 ng/Kg 0.181 ng/Kg 0.274 ng/Kg 0.160 ng/Kg 0.181 ng/Kg 0.0988 ng/Kg	0.0476U ng/Kg 0.0502U ng/Kg 0.181U ng/Kg 0.274U ng/Kg 0.160U ng/Kg 0.181U ng/Kg 0.0988U ng/Kg
SL-159-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0674 ng/Kg 0.211 ng/Kg 0.318 ng/Kg 0.229 ng/Kg 0.176 ng/Kg	0.0674U ng/Kg 0.211U ng/Kg 0.318U ng/Kg 0.229U ng/Kg 0.176U ng/Kg
SL-160-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF	0.0290 ng/Kg 0.125 ng/Kg 0.108 ng/Kg 0.169 ng/Kg 0.204 ng/Kg 0.276 ng/Kg 0.134 ng/Kg	0.0290U ng/Kg 0.125U ng/Kg 0.108U ng/Kg 0.169U ng/Kg 0.204U ng/Kg 0.276U ng/Kg 0.134U ng/Kg

Sample EB-SA6-SS-071911 was identified as an equipment blank. No polychlorinated dioxin/dibenzofuran contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA6-SS-071911	7/19/11	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0901 pg/L 0.172 pg/L 0.149 pg/L 0.309 pg/L 0.238 pg/L 0.163 pg/L 0.104 pg/L 0.135 pg/L 0.273 pg/L 0.213 pg/L 0.288 pg/L 0.550 pg/L 3.67 pg/L 0.319 pg/L 7.81 pg/L 0.984 pg/L	SL-151-SA6-SS-0.0-0.5 SL-154-SA6-SS-0.0-0.5 SL-166-SA6-SS-0.0-0.5 SL-168-SA6-SS-0.0-0.5 SL-169-SA6-SS-0.0-0.5 SL-171-SA6-SS-0.0-0.5 SL-172-SA6-SS-0.0-0.5 SL-174-SA6-SS-0.0-0.5 SL-178-SA6-SS-0.0-0.5 SL-185-SA6-SS-0.0-0.5 SL-301-SA6-SS-0.0-0.5 SL-084-SA6-SB-4.0-5.0 SL-084-SA6-SB-9.0-10.0 SL-085-SA6-SB-4.0-5.0 SL-085-SA6-SB-7.0-8.0



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

## VI. Matrix Spike/Matrix Spike Duplicates

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

## VII. Laboratory Control Samples (LCS)

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

## VIII. Regional Quality Assurance and Quality Control

Not applicable.

## IX. Internal Standards

All internal standard recoveries were within QC limits.

## X. Target Compound Identifications

All target compound identifications were within validation criteria.

## XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
SL-169-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HpCDD OCDD	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects)	P
SL-084-SA6-SB-4.0-5.0	OCDD	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects) J (all detects)	P

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX115	All compounds reported below the RL.	J (all detects)	A

## XII. System Performance

The system performance was acceptable.

## XIII. Overall Assessment of Data

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

## XIV. Field Duplicates

Samples SL-160-SA6-SS-0.0-0.5 and DUP04-SA6-QC-072011 (from SDG DX116) were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
1,2,3,4,6,7,8-HpCDD	20.2	25.9	25 (≤50)	-	-
1,2,3,4,6,7,8-HpCDF	3.12	4.0	25 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	0.332	0.34	2 (≤50)	-	-
1,2,3,4,7,8-HxCDD	0.276	0.636	27 (≤50)	-	-
1,2,3,4,7,8-HxCDF	0.246	0.318	26 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.594	0.799	29 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.169	0.184	8 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.472	0.68	36 (≤50)	-	-
1,2,3,7,8,9-HxCDF	0.134	0.186	32 (≤50)	-	-
2,3,4,6,7,8-HxCDF	0.204	0.212	4 (≤50)	-	-
2,3,4,7,8-PeCDF	0.125	0.127	2 (≤50)	-	-
2,3,7,8-TCDD	0.0392	0.0509	26 (≤50)	-	-
OCDD	302	436	36 (≤50)	-	-
OCDF	6.53	8.28	24 (≤50)	-	-
1,2,3,7,8-PeCDD	0.108	0.193	56 (≤50)	J (all detects)	A

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-160-SA6-SS-0.0-0.5	DUP04-SA6-QC-072011			
1,2,3,7,8-PeCDF	0.0290	0.703	83 (≤50)	J (all detects)	A
2,3,7,8-TCDF	0.992U	0.042	200 (≤50)	J (all detects) UJ (all non-detects)	A

**Santa Susana Field Laboratory**  
**Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX115**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX115	SL-169-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HpCDD OCDD	J (all detects) J (all detects)	P	Compound quantitation and RLs (*XI)
DX115	SL-084-SA6-SB-4.0-5.0	OCDD	J (all detects)	P	Compound quantitation and RLs (*XI)
DX115	SL-151-SA6-SS-0.0-0.5 SL-154-SA6-SS-0.0-0.5 SL-166-SA6-SS-0.0-0.5 SL-168-SA6-SS-0.0-0.5 SL-169-SA6-SS-0.0-0.5 SL-171-SA6-SS-0.0-0.5 SL-172-SA6-SS-0.0-0.5 SL-174-SA6-SS-0.0-0.5 SL-178-SA6-SS-0.0-0.5 SL-185-SA6-SS-0.0-0.5 SL-301-SA6-SS-0.0-0.5 SL-084-SA6-SB-4.0-5.0 SL-084-SA6-SB-9.0-10.0 SL-085-SA6-SB-4.0-5.0 SL-085-SA6-SB-7.0-8.0 EB-SA6-SS-071911 SL-156-SA6-SS-0.0-0.5 SL-157-SA6-SS-0.0-0.5 SL-159-SA6-SS-0.0-0.5 SL-160-SA6-SS-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX115	SL-160-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDD 1,2,3,7,8-PeCDF	J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DX115	SL-160-SA6-SS-0.0-0.5	2,3,7,8-TCDF	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

**Santa Susana Field Laboratory**

**Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX115**

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX115	EB-SA6-SS-071911	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0901U pg/L 0.172U pg/L 0.149U pg/L 0.309U pg/L 0.238U pg/L 0.163U pg/L 0.104U pg/L 0.135U pg/L 0.273U pg/L 0.213U pg/L 0.288U pg/L 0.550U pg/L 3.67U pg/L 0.319U pg/L 7.81U pg/L 0.984U pg/L	A	B
DX115	SL-154-SA6-SS-0.0-0.5	2,3,7,8-TCDF	0.203U ng/Kg	A	B
DX115	SL-166-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0963U ng/Kg 0.177U ng/Kg 0.250U ng/Kg 0.211U ng/Kg	A	B
DX115	SL-168-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF	0.174U ng/Kg 0.149U ng/Kg	A	B
DX115	SL-171-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.119U ng/Kg 0.231U ng/Kg 0.219U ng/Kg 0.209U ng/Kg 0.223U ng/Kg	A	B
DX115	SL-172-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0594U ng/Kg 0.185U ng/Kg 0.214U ng/Kg 0.203U ng/Kg	A	B
DX115	SL-174-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF	0.128U ng/Kg 0.156U ng/Kg 0.108U ng/Kg 0.198U ng/Kg 0.177U ng/Kg 0.0911U ng/Kg	A	B
DX115	SL-185-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 1,2,3,7,8,9-HxCDF	0.173U ng/Kg 0.269U ng/Kg 0.139U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX115	SL-085-SA6-SB-4.0-5.0	2,3,7,8-TCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0522U ng/Kg 0.104U ng/Kg 0.109U ng/Kg 0.0877U ng/Kg 0.0344U ng/Kg 0.0896U ng/Kg 0.105U ng/Kg 0.0532U ng/Kg 0.416U ng/Kg 1.56U ng/Kg 0.0540U ng/Kg 12.5U ng/Kg 0.696U ng/Kg	A	B
DX115	SL-085-SA6-SB-7.0-8.0	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0269U ng/Kg 0.0379U ng/Kg 0.0539U ng/Kg 0.0622U ng/Kg 0.0214U ng/Kg 0.0280U ng/Kg 0.0264U ng/Kg 0.0477U ng/Kg 0.0253U ng/Kg 0.0703U ng/Kg 0.323U ng/Kg 0.0264U ng/Kg 1.09U ng/Kg 0.147U ng/Kg	A	B
DX115	SL-156-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0263U ng/Kg 0.0282U ng/Kg 0.101U ng/Kg 0.226U ng/Kg 0.0802U ng/Kg 0.0742U ng/Kg 0.0736U ng/Kg 0.259U ng/Kg 0.114U ng/Kg 0.0613U ng/Kg	A	B
DX115	SL-157-SA6-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0476U ng/Kg 0.0502U ng/Kg 0.181U ng/Kg 0.274U ng/Kg 0.160U ng/Kg 0.181U ng/Kg 0.0988U ng/Kg	A	B
DX115	SL-159-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF	0.0674U ng/Kg 0.211U ng/Kg 0.318U ng/Kg 0.229U ng/Kg 0.176U ng/Kg	A	B
DX115	SL-160-SA6-SS-0.0-0.5	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDF	0.0290U ng/Kg 0.125U ng/Kg 0.108U ng/Kg 0.169U ng/Kg 0.204U ng/Kg 0.276U ng/Kg 0.134U ng/Kg	A	B

**Santa Susana Field Laboratory**

**Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX115**

No Sample Data Qualified in this SDG

LDC #: 26392E21  
 SDG #: DX115  
 Laboratory: Lancaster Laboratories

# VALIDATION COMPLETENESS WORKSHEET

Level IV

Date: 10/19/11  
 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>7/19 - 7/20/11</u>
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	% RSD $\leq$ 20/35
IV.	Routine calibration/ <del>rev</del>	A	QC limit
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	SWA	
VII.	Laboratory control samples	A	tes OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	QC limit
X.	Target compound identifications	A	
XI.	Compound quantitation and CRQLs	SW	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	TSW	DUP04-SA6-QC-072011 from SDG DX116 <u>5/20</u>
XV.	Field blanks	SW	EB = 16

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

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

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

Validated Samples:  
SPIL & W

1	SL-151-SA6-SS-0.0-0.5	11	SL-301-SA6-SS-0.0-0.5	21	SL-160-SA6-SS-0.0-0.5MS	31	Blank 21000/
2	SL-154-SA6-SS-0.0-0.5	12	SL-084-SA6-SB-4.0-5.0	22	SL-160-SA6-SS-0.0-0.5MSD	32	Blank 22400/
3	SL-166-SA6-SS-0.0-0.5	13	SL-084-SA6-SB-9.0-10.0	23		33	
4	SL-168-SA6-SS-0.0-0.5	14	SL-085-SA6-SB-4.0-5.0	24		34	
5	SL-169-SA6-SS-0.0-0.5	15	SL-085-SA6-SB-7.0-8.0	25		35	
6	SL-171-SA6-SS-0.0-0.5	16	EB-SA6-SS-071911 W	26		36	
7	SL-172-SA6-SS-0.0-0.5	17	SL-156-SA6-SS-0.0-0.5	27		37	
8	SL-174-SA6-SS-0.0-0.5	18	SL-157-SA6-SS-0.0-0.5	28		38	
9	SL-178-SA6-SS-0.0-0.5	19	SL-159-SA6-SS-0.0-0.5	29		39	
10	SL-185-SA6-SS-0.0-0.5	20	SL-160-SA6-SS-0.0-0.5	30		40	

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



**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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>II. GC/MS Instrument performance check</b>				
Was PFK exact mass 380.9760 verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the retention time windows established for all homologues?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers $\leq 25\%$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the static resolving power at least 10,000 (10% valley definition)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the mass resolution adequately check with PFK?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>III. Initial calibration</b>				
Was the initial calibration performed at 5 concentration levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) $\leq 20\%$ for unlabeled compounds and $\leq 35\%$ for labeled compounds?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did all calibration standards meet the Ion Abundance Ratio criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the signal to noise ratio for each target compound $\geq 2.5$ and for each recovery and internal standard $\geq 10$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>IV. Continuing calibration</b>				
Was a routine calibration performed at the beginning and end of each 12 hour period?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>V. Blanks</b>				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank performed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>VII. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Validation Area	Yes	No	NA	Findings/Comments
<b>VIII. Regional Quality Assurance and Quality Control</b>				
Were performance evaluation (PE) samples performed?			<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?				
<b>IX. Internal standards</b>				
Were internal standard recoveries within the 25-150% criteria?	<input checked="" type="checkbox"/>			
Was the minimum S/N ratio of all internal standard peaks $\geq 10$ ?	<input checked="" type="checkbox"/>			
<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 $\pm 1$ to 3 sec. of the RT of the labeled standard?	<input checked="" type="checkbox"/>			
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?	<input checked="" type="checkbox"/>			
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?	<input checked="" type="checkbox"/>			
Did compound spectra contain all characteristic ions listed in the table attached?	<input checked="" type="checkbox"/>			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	<input checked="" type="checkbox"/>			
Was the signal to noise ratio for each target compound and labeled standard $\geq 2.5$ ?	<input checked="" type="checkbox"/>			
Does the maximum intensity of each specified characteristic ion coincide within $\pm 2$ seconds (includes labeled standards)?	<input checked="" type="checkbox"/>			
For PCDF identification, was any signal ( $S/N \geq 2.5$ , at $\pm$ seconds RT) detected in the corresponding PCDF channel?	<input checked="" type="checkbox"/>			
Was an acceptable lock mass recorded and monitored?	<input checked="" type="checkbox"/>			
<b>XI. Compound quantitation/CRQLs</b>				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>			
<b>XII. System performance</b>				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>			
<b>XIII. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>			
<b>XIV. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.		<input checked="" type="checkbox"/>		
Target compounds were detected in the field duplicates.			<input checked="" type="checkbox"/>	
<b>XV. Field blanks</b>				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>			
Target compounds were detected in the field blanks.	<input checked="" type="checkbox"/>			

# VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

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".

☒ N N/A Were all samples associated with a method blank?

☒ Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? \*EMPC

☒ Y N N/A Was the method blank contaminated?

Blank extraction date: 8/12/11 Blank analysis date: 8/16/11 Associated samples: ALL WATER

Conc. units: ng/kg

Compound		Blank ID	Sample Identification				
		BLK224001	5X	16			
H		0.139	0.695	0.0901*U			
A		0.457*	2.285	0.172*U			
I		0.280*	1.4	0.149U			
J		0.450*	2.25	0.309U			
B		0.437*	2.185				
K		0.405	2.025	0.238*U			
L		0.218*	1.09	0.163*U			
M		0.268	1.34	0.104U			
C		0.200*	1	0.135*U			
D		0.373*	1.865	0.273*U			
E		0.458	2.29	0.213*U			
N		0.595*	2.975	0.288*U			
O		0.817*	4.085	0.550*U			
F		3.99	19.95	3.67U			
P		0.551*	2.755	0.319*U			
G		8.97	44.85	7.81U			
Q		1.57*	7.85	0.984U			

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
All contaminants within five times the method blank concentration were qualified as not detected, "U".

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: 8/12/11 Blank analysis date: 8/16/11

Associated samples: ALL SOIL

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification											
		5X	2	3	4	6	7	8	10	14			
	BLK210001												
H	0.0475*	0.2375	0.203*U		0.174*U	0.119*U	0.0594*U	0.128*U	0.173U	0.0522*U			
		0											
I	0.0473*	0.2365		0.0963*U	0.149*U	0.231U		0.156U					
J	0.0459	0.2295		0.177U									
B	0.0724*	0.362					0.185*U	0.108U	0.269U	0.104*U			
K	0.0448*	0.224				0.219*U							
L	0.0341*	0.1705								0.109*U			
M	0.0534	0.267				0.209U	0.214U	0.198U		0.0877*U			
C	0.0831*	0.4155		0.250*U				0.177*U		0.0344*U			
D	0.0751	0.3755								0.0896U			
E	0.0786*	0.393								0.105*U			
N	0.0484*	0.242		0.211*U		0.223*U	0.203U	0.0911U	0.139U	0.0532*U			
O	0.0960*	0.48								0.416U			
F	1.10	5.5								1.56U			
P	0.0192	0.096								0.0540*U			
G	6.35	31.75								12.5U			
Q	0.174*	0.87								0.696U			

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
All contaminants within five times the method blank concentration were qualified as not detected, "U".

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: 8/12/11 Blank analysis date: 8/16/11 Associated samples: ALL SOIL

Conc. units: ng/Kg

Compound	Blank ID	Sample Identification							
		5X	15	17	18	19	20		
H	BLK210001	0.2375	0.0269*U	0.0263*U	0.0476*				
I	0.0473*	0.2365	0.0379*U	0.0282*U	0.0502*	0.0674*U	0.0290*		
J	0.0459	0.2295	0.0539U	0.101*U	0.181	0.211*U	0.125*		
B	0.0724*	0.362		0.226*U	0.274	0.318*U	0.108*		
K	0.0448*	0.224	0.0622U	0.0802*U					
L	0.0341*	0.1705	0.0214*U	0.0742*U	0.160		0.169		
M	0.0534	0.267	0.0280*U	0.0736U	0.181	0.229U	0.204*		
C	0.0831*	0.4155	0.0264*U	0.259U			0.276		
D	0.0751	0.3755	0.0477U						
E	0.0786*	0.393	0.0253*U						
N	0.0484*	0.242		0.114*U	0.0988	0.176*U	0.134*		
O	0.0960*	0.48	0.0703U						
F	1.10	5.5	0.323U						
P	0.0192	0.096	0.0264*U	0.0613U					
G	6.35	31.75	1.09U						
Q	0.174*	0.87	0.147U						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 2639262/

VALIDATION FINDINGS WORKSHEET  
Field Blanks

Page: 1 of 1  
Reviewer: F7  
2nd Reviewer: E

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

Y/N N/A Were field blanks identified in this SDG? \* empc

Blank units: pg/L Associated sample units: ng/Kg

Sampling date: 7/19/11

Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: 1-15 75X

Compound	Blank ID	Sample Identification									
	16										
H	0.0901*										
A	0.172*										
I	0.149										
J	0.309										
K	0.238*										
L	0.163*										
M	0.104										
C	0.135*										
D	0.273*										
E	0.213*										
N	0.288*										
O	0.550*										
F	3.67										
P	0.319*										
G	7.81										
Q	0.984										

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

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

Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/> <u>Y</u>	<input type="checkbox"/> <u>N</u>	<input type="checkbox"/> <u>N/A</u>
Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).	<input type="checkbox"/> <u>Y</u>	<input checked="" type="checkbox"/> <u>N</u>	<input type="checkbox"/> <u>N/A</u>

[illegible]

Comments: See sample calculation verification worksheet for recalculations



LDC #: 26392B21  
SDG #: DX115

# VALIDATION FINDINGS WORKSHEET Field Duplicates

Page: 1 of 1  
Reviewer: ms  
2nd reviewer: A

METHOD: GC/MS Dioxins/Dibenzofurans (Method 1613B)

☒ N N/A  
☒ N N/A

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

Compound	Concentration ( ng/kg )		RPD ( ≤ 50 )
	20	DUP04-SAG-QC-072011	
F	20.2	25.9	25
O	3.12	4.0	25
P	0.332	0.34	2
C	0.276	0.363	27
K	0.246	0.318	26

Compound	Concentration ( )		RPD
	cont.		
D	0.594	0.799	29
<del>M</del> L	0.169	0.184	8
E	0.472	0.68	36
N	0.134	0.186	32
M	0.204	0.212	4

Compound	Concentration ( )		RPD
	cont.		
J	0.125	0.127	2
A	0.0392	0.0509	26
G	302	436	36
Q	6.53	8.28	24
B	0.108	0.193	56 J/A/(FD)

Compound	Concentration ( )		RPD
	cont.		
I	0.0290	0.703	83 J/A (FD)
H	0.992 U	0.042	200 J/UJ/A (FD)

# 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:

$$RRF = (A_s)(C_{is}) / (A_{is})(C_s)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A<sub>s</sub> = Area of compound,

C<sub>s</sub> = Concentration of compound,

S = Standard deviation of the RRFs, X = Mean of the RRFs

A<sub>is</sub> = Area of associated internal standard

C<sub>is</sub> = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				Average RRF (initial)	RRF (initial)	Average RRF (initial)	RRF (initial)	%RSD	%RSD	RRF (CS3 std)	%RSD
1	ICAL	6/3/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	1.017	1.033	1.017	1.033	4.59	4.59	1.033	4.59
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	1.186	1.186	1.186	1.186	5.56	5.56	1.186	5.56
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	0.995	1.001	0.995	1.001	3.43	3.43	1.001	3.43
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	1.077	1.101	1.077	1.101	4.02	4.02	1.101	4.02
			OCDF ( <sup>13</sup> C-OCDF)	0.945	0.974	0.945	0.974	3.54	3.54	0.974	3.54
2	ICAL	6/4/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	1.028	1.022	1.028	1.022	7.77	7.77	1.022	7.77
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	1.142	1.133	1.142	1.133	3.52	3.52	1.133	3.52
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	1.018	0.971	1.018	0.971	4.32	4.32	0.971	4.32
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	1.087	1.053	1.087	1.053	4.49	4.49	1.053	4.49
			OCDF ( <sup>13</sup> C-OCDF)	1.001	0.950	1.001	0.950	5.01	5.01	0.950	5.01
3	ICAL (SP233)	6/23/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	1.012	1.006	1.012	1.006	3.65	3.65	1.006	3.65
			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.

LDC #: 26392E2/

# VALIDATION FINDINGS WORKSHEET Routine Calibration Results Verification

Page: 1 of 1  
Reviewer: FT  
2nd Reviewer: 7

16/3/13

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

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

% Difference =  $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$   
RRF =  $(A_x)(C_{is}) / (A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF  
RRF = continuing calibration RRF

$A_x$  = Area of compound,  
 $C_x$  = Concentration of compound,  
 $A_{is}$  = Area of associated internal standard  
 $C_{is}$  = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Amt Average RRF (initial)	Reported Amt RRF (CC)	Recalculated Amt RRF (CC)	Reported % R %	Recalculated % R %
1	ce1 13:34	8/2/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	9.950	9.950	100	150
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	10.350	10.350	104	104
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	52.0	52.170	52.170	104	104
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	52.0	51.230	51.230	102	102
			OCDE ( <sup>13</sup> C-OCDD)	100.0	102.310	102.310	102	102
2	ce1 04:29 (SP2331)	8/6/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10	8.650	8.650	87	87
			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)					
			OCDE ( <sup>13</sup> C-OCDD)					
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)					
			OCDE ( <sup>13</sup> C-OCDD)					

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

LDC #: 26392 E2/

# VALIDATION FINDINGS WORKSHEET Routine Calibration Results Verification

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

## 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 =  $(A_x)(C_b) / (A_b)(C_x)$       RRF = continuing calibration RRF  
 $A_x$  = Area of compound,       $A_b$  = Area of associated internal standard  
 $C_x$  = Concentration of compound,       $C_b$  = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Amt Average-RRF (initial)	Reported		Recalculated		Reported		Recalculated	
					RRF Amt (CC)	RRF Amt (CC)	RRF (CC)	RRF (CC)	%R	%R	%R	%R
1	cen 10:16	8/16/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	9.710		9.740		97		97	
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	9.180		9.180		92		92	
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	50.0	50.360		50.360		101		101	
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	50.0	50.180		50.180		100		100	
			OCDF ( <sup>13</sup> C-OCDF)	100.0	107.420		107.420		107		107	
2	cen 12:12	8/16/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	9.760		9.760		98		98	
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	10.300		10.300		103		103	
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	50.0	49.590		49.59		99		99	
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	50.0	48.690		48.69		97		97	
			OCDF ( <sup>13</sup> C-OCDF)	100.0	94.830		94.830		94		94	
3	cen 0041	8/2/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	9.850		9.850		99		99	
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	10.240		10.240		102		102	
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	50.0	50.210		50.210		100		100	
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	50.0	48.870		48.870		98		98	
			OCDF ( <sup>13</sup> C-OCDF)	100.0	94.770		94.770		95		95	

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

**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:

$\% \text{ Recovery} = 100 * (\text{SSR} - \text{SR})/\text{SA}$

Where: SSR = Spiked sample result, SR = Sample result  
SA = Spike added

$RPD = |MSR - MSDR| \cdot 2 / (MSR + MSDR)$

MS/MSD samples: 2/22[illegible]

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.

V:\Validation Worksheets\Dioxin90\LCSCLC90.21

Descriptor	Accurate mass <sup>(a)</sup>	Ion ID	Elemental Composition	Analyte	Descriptor	Accurate Mass <sup>(b)</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>3</sub> <sup>37</sup> ClO	HpCDF
	305.8987	M+2	C <sub>12</sub> H <sub>35</sub> Cl <sub>3</sub> <sup>37</sup> ClO	TCDF		409.7788	M+4	C <sub>12</sub> H <sub>35</sub> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O	HpCDF
	315.9419	M	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>4</sub> O	TCDF (S)		417.8250	M	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>4</sub> O	HpCDF (S)
	317.9389	M+2	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> ClO	TCDF (S)		419.8220	M+2	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>3</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 <sub>35</sub> Cl <sub>3</sub> <sup>37</sup> ClO <sub>2</sub>	HpCDD
	321.8936	M+2	C <sub>12</sub> H <sub>35</sub> Cl <sub>3</sub> <sup>37</sup> ClO <sub>2</sub>	TCDD		425.7737	M+2	C <sub>12</sub> H <sub>35</sub> Cl <sub>3</sub> <sup>37</sup> ClO <sub>2</sub>	HpCDD
	331.9368	M	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>4</sub> O <sub>2</sub>	TCDD (S)		435.8169	M+2	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> ClO <sub>2</sub>	HpCDD (S)
	333.9338	M+2	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> ClO <sub>2</sub>	TCDD (S)		437.8140	M+4	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>	HpCDD (S)
	375.8364	M+2	C <sub>12</sub> H <sub>35</sub> Cl <sub>3</sub> <sup>37</sup> ClO	HxCDF		479.7165	M+4	C <sub>12</sub> H <sub>35</sub> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O	HxCDF
	[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>35</sub> Cl <sub>3</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>35</sub> 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>7</sub> <sup>37</sup> Cl <sub>2</sub> O	OCDF
	351.9000	M+2	C <sub>12</sub> H <sub>35</sub> Cl <sub>3</sub> <sup>37</sup> ClO	PeCDF (S)		457.7377	M+2	C <sub>12</sub> <sup>35</sup> Cl <sub>7</sub> <sup>37</sup> ClO <sub>2</sub>	OCDD
	353.8970	M+4	C <sub>12</sub> H <sub>35</sub> 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>7</sub> <sup>37</sup> ClO <sub>2</sub>	OCDD
	355.8546	M+2	C <sub>12</sub> H <sub>35</sub> Cl <sub>3</sub> <sup>37</sup> ClO <sub>2</sub>	PeCDD		459.7780	M+2	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>35</sub> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O <sub>2</sub>	PeCDD		471.7750	M+4	C <sub>12</sub> <sup>35</sup> Cl <sub>7</sub> <sup>37</sup> Cl <sub>2</sub> O <sub>2</sub>	OCDD (S)
	367.8949	M+2	C <sub>12</sub> H <sub>35</sub> Cl <sub>3</sub> <sup>37</sup> ClO <sub>2</sub>	PeCDD (S)		513.6775	M+4	C <sub>12</sub> <sup>35</sup> Cl <sub>7</sub> <sup>37</sup> Cl <sub>2</sub> O	DCDPE
	369.8919	M+4	C <sub>12</sub> H <sub>35</sub> 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>35</sub> Cl <sub>3</sub> <sup>37</sup> ClO	HxCDF					
	[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>3</sub> <sup>37</sup> ClO	HxCDF					
	375.8178	M+4	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O	HxCDF					
	383.8639	M	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>4</sub> O	HxCDF (S)					
	385.8610	M+2	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>3</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> ClO <sub>2</sub>	HxCDD					
	391.8127	M+4	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					
	401.8559	M+2	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> ClO <sub>2</sub>	HxCDD (S)					
	403.8529	M+4	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)					
	445.7655	M+4	C <sub>12</sub> H <sub>2</sub> <sup>35</sup> Cl <sub>3</sub> <sup>37</sup> Cl <sub>2</sub> O	HxCDD (S)					
	[430.9728]	LOCK	C <sub>9</sub> F <sub>17</sub>	OCDF					

(a) The following nucleic masses were used:

$H = 1.007825$   
 $C = 12.000000$   
 $^{13}C = 13.003355$   
 $F = 18.9984$   
 $O = 15.994915$   
 $^{35}Cl = 34.968853$   
 $^{37}Cl = 36.965903$

S = internal/recovery standard

LDC #: 26392EZ

## VALIDATION FINDINGS WORKSHEET

### Sample Calculation Verification

Page: / of /

Reviewer:\_\_\_\_\_FT

2nd reviewer:                      <sup>A</sup>

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

~~Y N N/A~~

Were all reported results recalculated and verified for all level IV samples?

Y N N/A

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_s)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

$A_x$  = Area of the characteristic ion (EICP) for the compound to be measured

$A_{is}$  = Area of the characteristic ion (EICP) for the specific internal standard

$I_s$  = Amount of internal standard added in nanograms (ng)

$V_o$  = Volume or weight of sample extract in milliliters (ml) or grams (g).

RRF = Relative Response Factor (average) from the initial calibration

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

Example:

Sample I.D. # /, OC DP:

$$\text{Conc.} = \frac{2074590}{(1841037)(4000)(775041)(1.041)(10.2)(0.99)} = 688918$$

11

1017 ng/kg

[illegible]

LDC #: \_\_\_\_\_

SDG #:

## VALIDATION FINDINGS WORKSHEET

### Sample Calculation Verification (additional page)

Page:\_\_\_ of\_\_\_

Reviewer:\_\_\_\_\_



# **SAMPLE DELIVERY GROUP**

**DX116**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Jul-2011	SL-167-SA6-SS-0.0-0.5	6351947	N	METHOD	1613B	III
20-Jul-2011	DUP04-SA6-QC-072011	6351954	FD	METHOD	1613B	III
20-Jul-2011	SL-164-SA6-SS-0.0-0.5	6351945	N	METHOD	1613B	III
20-Jul-2011	SL-162-SA6-SS-0.0-0.5	6351944	N	METHOD	1613B	III
20-Jul-2011	SL-321-SA6-SS-0.0-0.5	6351952	N	METHOD	1613B	III
20-Jul-2011	SL-165-SA6-SS-0.0-0.5	6351946	N	METHOD	1613B	III
20-Jul-2011	SL-322-SA6-SS-0.0-0.5	6351953	N	METHOD	1613B	III
20-Jul-2011	EB-SA6-SB-072011	6351958	EB	METHOD	1613B	III
20-Jul-2011	SL-218-SA6-SS-0.0-0.5	6351949	N	METHOD	1613B	III
20-Jul-2011	SL-220-SA6-SS-0.0-0.5	6351950	N	METHOD	1613B	III
20-Jul-2011	SL-215-SA6-SS-0.0-0.5	6351948	N	METHOD	1613B	III
20-Jul-2011	SL-310-SA6-SS-0.0-0.5	6351951	N	METHOD	1613B	III
20-Jul-2011	SL-097-SA6-SB-1.5-2.5	6351957	N	METHOD	1613B	III
20-Jul-2011	SL-086-SA6-SB-4.0-5.0	6351955	N	METHOD	1613B	III
20-Jul-2011	SL-086-SA6-SB-9.0-10.0	6351956	N	METHOD	1613B	III
21-Jul-2011	SL-214-SA6-SS-0.0-0.5	6353214	N	METHOD	1613B	III
21-Jul-2011	SL-219-SA6-SS-0.0-0.5	6353216	N	METHOD	1613B	III
21-Jul-2011	SL-216-SA6-SS-0.0-0.5	6353215	N	METHOD	1613B	III
21-Jul-2011	SL-211-SA6-SS-0.0-0.5	6353211	N	METHOD	1613B	III
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	6353212	MS	METHOD	1613B	III
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	6353213	MSD	METHOD	1613B	III
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MSD	P353211M371630	MSD	METHOD	1613B	III
21-Jul-2011	SL-211-SA6-SS-0.0-0.5MS	P353211R371533	MS	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** AQ

Sample ID: EB-SA6-SB-072011

Collected: 7/20/2011 12:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.26	JB	0.111	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.605	JB	0.0527	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.386	JBQ	0.0644	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.134	JBQ	0.0888	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDF	0.200	JBQ	0.0459	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDD	0.243	JB	0.0948	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.180	JB	0.0456	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDD	0.395	JB	0.0916	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	0.330	JB	0.0374	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.106	JBQ	0.0888	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.108	JBQ	0.0528	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.165	JBQ	0.0430	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.433	JBQ	0.0459	MDL	10.6	PQL	pg/L	U	B
2,3,7,8-TCDD	0.173	JB	0.0937	MDL	2.12	PQL	pg/L	U	B
OCDD	9.53	JB	0.121	MDL	21.2	PQL	pg/L	U	B
OCDF	0.986	JB	0.131	MDL	21.2	PQL	pg/L	U	B

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: DUP04-SA6-QC-072011

Collected: 7/20/2011 8:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.00	JB	0.0222	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.340	JB	0.0239	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.363	JB	0.0487	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.318	JBQ	0.0335	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.799	JB	0.0498	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.184	JB	0.0306	MDL	4.96	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.680	JB	0.0579	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.186	JB	0.0274	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.193	JB	0.0259	MDL	4.96	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.0703	JB	0.0144	MDL	4.96	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HxCDF	0.212	JB	0.0244	MDL	4.96	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

10/27/2011 10:09:42 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: DUP04-SA6-QC-072011

Collected: 7/20/2011 8:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.127	JB	0.0146	MDL	4.96	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0509	JQ	0.0183	MDL	0.992	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0420	JBQ	0.0219	MDL	0.992	PQL	ng/Kg	UJ	B, FD
OCDF	8.28	JB	0.0298	MDL	9.92	PQL	ng/Kg	J	Z

Sample ID: SL-086-SA6-SB-4.0-5.0

Collected: 7/20/2011 2:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.54	JB	0.0294	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	1.34	JB	0.0191	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.111	JBQ	0.0216	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0415	JBQ	0.0255	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	1.50	JB	0.0478	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.187	JBQ	0.0265	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.126	JBQ	0.0439	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.103	JB	0.0236	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0801	JBQ	0.0414	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0763	JBQ	0.0195	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.205	JB	0.0268	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.207	JB	0.0367	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.197	JBQ	0.0264	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.319	JBQ	0.0228	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	29.9	B	0.0207	MDL	10.6	PQL	ng/Kg	U	B
OCDF	3.14	JB	0.0197	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-086-SA6-SB-9.0-10.0

Collected: 7/20/2011 2:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.260	JB	0.0217	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0598	JB	0.0107	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0191	JB	0.0119	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0176	JBQ	0.0130	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0451	JBQ	0.0164	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0196	JBQ	0.0121	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0408	JBQ	0.0141	MDL	5.34	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-086-SA6-SB-9.0-10.0

Collected: 7/20/2011 2:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0354	JBQ	0.0114	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0212	JBQ	0.0187	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0283	JB	0.0131	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0243	JBQ	0.00953	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0664	JBQ	0.0127	MDL	5.34	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0323	JQ	0.0197	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	0.930	JB	0.0209	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.122	JB	0.0233	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-097-SA6-SB-1.5-2.5

Collected: 7/20/2011 2:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.756	JB	0.0281	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.451	JB	0.0288	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.417	JB	0.0425	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.55	JB	0.0305	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.328	JB	0.0429	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.583	JB	0.0280	MDL	5.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.128	JB	0.0281	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.165	JBQ	0.0220	MDL	5.05	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.190	JB	0.0178	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.490	JB	0.0255	MDL	5.05	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.297	JB	0.0177	MDL	5.05	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0589	JQ	0.0144	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.362	JB	0.0290	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-162-SA6-SS-0.0-0.5

Collected: 7/20/2011 9:51:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.79	JB	0.0281	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.320	JB	0.0198	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	JB	0.0434	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.645	JBQ	0.0489	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.35	JB	0.0446	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.405	JB	0.0499	MDL	4.95	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-162-SA6-SS-0.0-0.5

**Collected:** 7/20/2011 9:51:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	2.64	JB	0.0429	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.240	JB	0.0268	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.651	JB	0.0362	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.162	JBQ	0.0214	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.328	JBQ	0.0268	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.476	JB	0.0208	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0887	J	0.0239	MDL	0.989	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.291	JB	0.0280	MDL	0.989	PQL	ng/Kg	J	Z

**Sample ID:** SL-164-SA6-SS-0.0-0.5

**Collected:** 7/20/2011 8:57:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.78	JB	0.0371	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.150	JB	0.0288	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.295	JB	0.0396	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.156	JBQ	0.0339	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.759	JB	0.0408	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.207	JBQ	0.0347	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.940	JB	0.0347	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0827	JB	0.0185	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.199	JB	0.0251	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0561	JBQ	0.0138	MDL	4.92	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.133	JBQ	0.0172	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0857	JBQ	0.0129	MDL	4.92	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0449	JQ	0.0197	MDL	0.984	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0393	JBQ	0.0223	MDL	0.984	PQL	ng/Kg	U	B
OCDF	3.88	JB	0.0271	MDL	9.84	PQL	ng/Kg	J	Z

**Sample ID:** SL-165-SA6-SS-0.0-0.5

**Collected:** 7/20/2011 10:24:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.64	JB	0.0198	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.149	JBQ	0.0233	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.260	JBQ	0.0382	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.131	JB	0.0290	MDL	4.98	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-165-SA6-SS-0.0-0.5

Collected: 7/20/2011 10:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.738	JBQ	0.0407	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.146	JBQ	0.0267	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.737	JB	0.0352	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0821	JBQ	0.0243	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.157	JBQ	0.0248	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0641	JBQ	0.0153	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.117	JBQ	0.0195	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0825	JB	0.0151	MDL	4.98	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0342	JQ	0.0265	MDL	0.996	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0919	JBQ	0.0288	MDL	0.996	PQL	ng/Kg	U	B
OCDF	3.98	JB	0.0325	MDL	9.96	PQL	ng/Kg	J	Z

Sample ID: SL-167-SA6-SS-0.0-0.5

Collected: 7/20/2011 8:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.362	JB	0.0213	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.38	JB	0.0323	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.355	JB	0.0339	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.84	JB	0.0329	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.219	JBQ	0.0324	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	2.97	JB	0.0312	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.199	JBQ	0.0252	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.882	JB	0.0346	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0882	JB	0.0157	MDL	4.93	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.252	JB	0.0224	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.202	JBQ	0.0151	MDL	4.93	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.134	JQ	0.0209	MDL	0.986	PQL	ng/Kg	J	Z

Sample ID: SL-211-SA6-SS-0.0-0.5

Collected: 7/21/2011 10:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	351	B	0.134	MDL	4.83	PQL	ng/Kg	J	Q
1,2,3,4,7,8,9-HPCDF	4.58	JB	0.0595	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.80	JB	0.0613	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	3.83	JB	0.0692	MDL	4.83	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENGHEM

Method: 1613B

Matrix: SO

Sample ID: SL-211-SA6-SS-0.0-0.5

Collected: 7/21/2011 10:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	2.16	JB	0.0657	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.993	JB	0.0660	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.63	JB	0.0640	MDL	4.83	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.49	JB	0.0534	MDL	4.83	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	2.90	JB	0.0585	MDL	4.83	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.02	JB	0.0489	MDL	4.83	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.248	J	0.0257	MDL	0.966	PQL	ng/Kg	J	Z
OCDD	5120	EB	0.0780	MDL	9.66	PQL	ng/Kg	J	*XI
OCDF	273	B	0.0346	MDL	9.66	PQL	ng/Kg	J	Q

Sample ID: SL-214-SA6-SS-0.0-0.5

Collected: 7/21/2011 9:07:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4390	EB	0.294	MDL	4.91	PQL	ng/Kg	J	*XI
OCDD	76100	EB	0.209	MDL	9.82	PQL	ng/Kg	J	*XI
OCDF	4680	EB	0.0584	MDL	9.82	PQL	ng/Kg	J	*XI

Sample ID: SL-215-SA6-SS-0.0-0.5

Collected: 7/20/2011 1:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	4.38	JB	0.110	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.92	JB	0.0711	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.37	JB	0.0668	MDL	5.00	PQL	ng/Kg	J	Z
OCDD	12900	EB	0.107	MDL	10.0	PQL	ng/Kg	J	*XI

Sample ID: SL-216-SA6-SS-0.0-0.5

Collected: 7/21/2011 9:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	1.58	JB	0.0462	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.60	JB	0.0411	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.88	JB	0.0304	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.35	JB	0.0303	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.474	JB	0.0215	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	21100	EB	0.109	MDL	10.1	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-218-SA6-SS-0.0-0.5

Collected: 7/20/2011 12:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.00	JB	0.0589	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.83	JB	0.0428	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.68	JB	0.0479	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	4.11	JB	0.0454	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.69	JB	0.0434	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.10	JB	0.0431	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.305	JBQ	0.0356	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.656	JB	0.0410	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.337	JB	0.0222	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.13	JB	0.0301	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.570	JB	0.0230	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.103	J	0.0239	MDL	0.996	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.484	JB	0.0329	MDL	0.996	PQL	ng/Kg	J	Z

Sample ID: SL-219-SA6-SS-0.0-0.5

Collected: 7/21/2011 9:25:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.866	J BC	0.0304	MDL	0.999	PQL	ng/Kg	J	Z

Sample ID: SL-219-SA6-SS-0.0-0.5

Collected: 7/21/2011 9:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.61	JB	0.0416	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	JB	0.0371	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.13	JB	0.0795	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.52	JB	0.0376	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.806	JB	0.0904	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.85	JB	0.0339	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.383	JB	0.0343	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.451	JB	0.0346	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.342	JB	0.0245	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.890	JB	0.0306	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.704	JB	0.0242	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0721	J	0.0172	MDL	0.999	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-220-SA6-SS-0.0-0.5

**Collected:** 7/20/2011 1:19:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3210	EB	0.230	MDL	4.97	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	3.48	JB	0.0870	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	3.76	JB	0.0719	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.898	J	0.0338	MDL	0.994	PQL	ng/Kg	J	Z
OCDD	48200	EB	0.152	MDL	9.94	PQL	ng/Kg	J	*XI

**Sample ID:** SL-310-SA6-SS-0.0-0.5

**Collected:** 7/20/2011 1:51:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	4.21	JB	0.0561	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.38	JB	0.0618	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.65	JB	0.116	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.48	JB	0.112	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.930	JB	0.0570	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.12	JB	0.0640	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.31	JB	0.0609	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	3.65	JB	0.0510	MDL	4.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.71	JB	0.0614	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.285	J	0.0249	MDL	0.985	PQL	ng/Kg	J	Z
OCDD	6990	EB	0.0992	MDL	9.85	PQL	ng/Kg	J	*XI

**Sample ID:** SL-321-SA6-SS-0.0-0.5

**Collected:** 7/20/2011 10:10:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.50	JB	0.0274	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.299	JB	0.0265	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.320	JB	0.0436	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.276	JB	0.0356	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.669	JB	0.0451	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JB	0.0348	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.487	JB	0.0400	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.208	JB	0.0250	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.131	JBQ	0.0260	MDL	4.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0812	JBQ	0.0127	MDL	4.93	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.183	JB	0.0244	MDL	4.93	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-321-SA6-SS-0.0-0.5

Collected: 7/20/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.113	JB	0.0125	MDL	4.93	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0741	J	0.0182	MDL	0.987	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0483	JB	0.0176	MDL	0.987	PQL	ng/Kg	U	B
OCDF	6.42	JB	0.0297	MDL	9.87	PQL	ng/Kg	J	Z

Sample ID: SL-322-SA6-SS-0.0-0.5

Collected: 7/20/2011 10:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	2.73	JB	0.0474	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	3.34	JB	0.0493	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	1.39	JB	0.0449	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.67	JB	0.0474	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	1.34	JB	0.0411	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.666	JB	0.0563	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.253	JB	0.0177	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	2.07	JB	0.0402	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.511	JB	0.0169	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.112	JQ	0.0232	MDL	0.995	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.110	JB	0.0229	MDL	0.995	PQL	ng/Kg	U	B
OCDD	4170	EB	0.0546	MDL	9.95	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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: DX116

Laboratory: LL

EDD Filename: DX116\_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
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX116

# Method Blank Outlier Report

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2240B371404	8/16/2011 2:04:00 PM	1,2,3,4,6,7,8-HPCDD 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	3.99 pg/L 0.817 pg/L 0.551 pg/L 0.200 pg/L 0.405 pg/L 0.373 pg/L 0.218 pg/L 0.458 pg/L 0.595 pg/L 0.437 pg/L 0.280 pg/L 0.268 pg/L 0.450 pg/L 0.457 pg/L 0.139 pg/L 8.97 pg/L 1.57 pg/L	EB-SA6-SB-072011

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-072011(RES)	1,2,3,4,6,7,8-HPCDD	4.26 pg/L	4.26U pg/L
EB-SA6-SB-072011(RES)	1,2,3,4,6,7,8-HPCDF	0.605 pg/L	0.605U pg/L
EB-SA6-SB-072011(RES)	1,2,3,4,7,8,9-HPCDF	0.386 pg/L	0.386U pg/L
EB-SA6-SB-072011(RES)	1,2,3,4,7,8-HxCDD	0.134 pg/L	0.134U pg/L
EB-SA6-SB-072011(RES)	1,2,3,4,7,8-HxCDF	0.200 pg/L	0.200U pg/L
EB-SA6-SB-072011(RES)	1,2,3,6,7,8-HxCDD	0.243 pg/L	0.243U pg/L
EB-SA6-SB-072011(RES)	1,2,3,6,7,8-HxCDF	0.180 pg/L	0.180U pg/L
EB-SA6-SB-072011(RES)	1,2,3,7,8,9-HxCDD	0.395 pg/L	0.395U pg/L
EB-SA6-SB-072011(RES)	1,2,3,7,8,9-HxCDF	0.330 pg/L	0.330U pg/L
EB-SA6-SB-072011(RES)	1,2,3,7,8-PECDD	0.106 pg/L	0.106U pg/L
EB-SA6-SB-072011(RES)	1,2,3,7,8-PECDF	0.108 pg/L	0.108U pg/L
EB-SA6-SB-072011(RES)	2,3,4,6,7,8-HxCDF	0.165 pg/L	0.165U pg/L
EB-SA6-SB-072011(RES)	2,3,4,7,8-PECDF	0.433 pg/L	0.433U pg/L
EB-SA6-SB-072011(RES)	2,3,7,8-TCDD	0.173 pg/L	0.173U pg/L
EB-SA6-SB-072011(RES)	OCDD	9.53 pg/L	9.53U pg/L
EB-SA6-SB-072011(RES)	OCDF	0.986 pg/L	0.986U pg/L

# Method Blank Outlier Report

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2140B370347	8/9/2011 3:47:00 AM	2,3,7,8-TCDF	0.0381 ng/Kg	DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5
BLK2140B372124	8/5/2011 9:24:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8-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-HxCDD 1,2,3,7,8-HxCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDF OCDD OCDF	1.14 ng/Kg 0.0913 ng/Kg 0.0388 ng/Kg 0.0896 ng/Kg 0.0447 ng/Kg 0.0673 ng/Kg 0.0467 ng/Kg 0.0880 ng/Kg 0.0283 ng/Kg 0.0337 ng/Kg 0.0262 ng/Kg 0.0193 ng/Kg 0.0827 ng/Kg 0.0364 ng/Kg 7.54 ng/Kg 0.147 ng/Kg	DUP04-SA6-QC-072011 SL-086-SA6-SB-4.0-5.0 SL-086-SA6-SB-9.0-10.0 SL-097-SA6-SB-1.5-2.5 SL-162-SA6-SS-0.0-0.5 SL-164-SA6-SS-0.0-0.5 SL-165-SA6-SS-0.0-0.5 SL-167-SA6-SS-0.0-0.5 SL-211-SA6-SS-0.0-0.5 SL-214-SA6-SS-0.0-0.5 SL-215-SA6-SS-0.0-0.5 SL-218-SA6-SS-0.0-0.5 SL-219-SA6-SS-0.0-0.5 SL-220-SA6-SS-0.0-0.5 SL-310-SA6-SS-0.0-0.5 SL-321-SA6-SS-0.0-0.5 SL-322-SA6-SS-0.0-0.5
BLK2220B372003	8/11/2011 8:03:00 PM	1,2,3,4,6,7,8-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-HxCDD 1,2,3,7,8-HxCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PECDF 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PECDF 2,3,7,8-TCDD OCDD OCDF	0.288 ng/Kg 0.0535 ng/Kg 0.0287 ng/Kg 0.0201 ng/Kg 0.0276 ng/Kg 0.0380 ng/Kg 0.0102 ng/Kg 0.0395 ng/Kg 0.0235 ng/Kg 0.0211 ng/Kg 0.0321 ng/Kg 0.0245 ng/Kg 0.0487 ng/Kg 0.0120 ng/Kg 0.582 ng/Kg 0.102 ng/Kg	SL-216-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP04-SA6-QC-072011(RES)	1,2,3,4,7,8-HxCDD	0.363 ng/Kg	0.363U ng/Kg
DUP04-SA6-QC-072011(RES)	1,2,3,6,7,8-HxCDF	0.184 ng/Kg	0.184U ng/Kg
DUP04-SA6-QC-072011(RES)	1,2,3,7,8-PECDF	0.0703 ng/Kg	0.0703U ng/Kg
DUP04-SA6-QC-072011(RES)	2,3,4,7,8-PECDF	0.127 ng/Kg	0.127U ng/Kg
DUP04-SA6-QC-072011(RES)	2,3,7,8-TCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	3.54 ng/Kg	3.54U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg

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: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0415 ng/Kg	0.0415U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.187 ng/Kg	0.187U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.126 ng/Kg	0.126U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.103 ng/Kg	0.103U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0801 ng/Kg	0.0801U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0763 ng/Kg	0.0763U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.197 ng/Kg	0.197U ng/Kg
SL-086-SA6-SB-4.0-5.0(RES)	OCDD	29.9 ng/Kg	29.9U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.260 ng/Kg	0.260U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0598 ng/Kg	0.0598U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0191 ng/Kg	0.0191U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0176 ng/Kg	0.0176U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0408 ng/Kg	0.0408U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0354 ng/Kg	0.0354U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0212 ng/Kg	0.0212U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0283 ng/Kg	0.0283U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	OCDD	0.930 ng/Kg	0.930U ng/Kg
SL-086-SA6-SB-9.0-10.0(RES)	OCDF	0.122 ng/Kg	0.122U ng/Kg
SL-097-SA6-SB-1.5-2.5(RES)	1,2,3,7,8,9-HxCDF	0.128 ng/Kg	0.128U ng/Kg
SL-097-SA6-SB-1.5-2.5(RES)	1,2,3,7,8-PECDD	0.165 ng/Kg	0.165U ng/Kg
SL-097-SA6-SB-1.5-2.5(RES)	2,3,4,7,8-PECDF	0.297 ng/Kg	0.297U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.295 ng/Kg	0.295U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDF	0.156 ng/Kg	0.156U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.207 ng/Kg	0.207U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.0827 ng/Kg	0.0827U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0561 ng/Kg	0.0561U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0857 ng/Kg	0.0857U ng/Kg
SL-164-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0393 ng/Kg	0.0393U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.149 ng/Kg	0.149U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.260 ng/Kg	0.260U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDF	0.131 ng/Kg	0.131U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.146 ng/Kg	0.146U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.0821 ng/Kg	0.0821U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.157 ng/Kg	0.157U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0641 ng/Kg	0.0641U ng/Kg

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: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-165-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-165-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0919 ng/Kg	0.0919U ng/Kg
SL-167-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SL-167-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0882 ng/Kg	0.0882U ng/Kg
SL-167-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.202 ng/Kg	0.202U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.320 ng/Kg	0.320U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.131 ng/Kg	0.131U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.113 ng/Kg	0.113U ng/Kg
SL-321-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0483 ng/Kg	0.0483U ng/Kg
SL-322-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.110 ng/Kg	0.110U ng/Kg

## Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDD OCDF	- -	151 146	40.00-135.00 40.00-135.00	- -	1,2,3,4,6,7,8-HPCDD OCDF	J (all detects)
SL-211-SA6-SS-0.0-0.5MS SL-211-SA6-SS-0.0-0.5MSD (SL-211-SA6-SS-0.0-0.5)	OCDD	-445	-51	40.00-135.00	-	OCDD	No Qual, >4x

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: PrepDX116\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-211-SA6-SS-0.0-0.5	DUP05-SA6-QC-072111			
MOISTURE	1.1	1.300000000	17		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-211-SA6-SS-0.0-0.5	DUP05-SA6-QC-072111			
1,2,3,4,6,7,8-HPCDD	351	327.000000000	7	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	67.4	66.400000000	1	50.00	
1,2,3,4,7,8,9-HPCDF	4.58	4.960000000	8	50.00	
1,2,3,4,7,8-HxCDD	3.80	3.800000000	0	50.00	
1,2,3,4,7,8-HxCDF	3.83	4.850000000	24	50.00	
1,2,3,6,7,8-HxCDD	11.3	10.100000000	11	50.00	
1,2,3,6,7,8-HxCDF	2.16	3.170000000	38	50.00	
1,2,3,7,8,9-HxCDD	7.05	7.030000000	0	50.00	
1,2,3,7,8,9-HxCDF	0.993	0.969000000	2	50.00	
1,2,3,7,8-PECDD	1.63	1.850000000	13	50.00	
2,3,4,6,7,8-HxCDF	2.90	2.950000000	2	50.00	
2,3,4,7,8-PECDF	2.02	2.690000000	28	50.00	
2,3,7,8-TCDD	0.248	0.260000000	5	50.00	
2,3,7,8-TCDF	1.79	1.960000000	9	50.00	
OCDD	5120	3590.000000000	35	50.00	
OCDF	273	270.000000000	1	50.00	
1,2,3,7,8-PECDF	1.49	13.100000000	159	50.00	J(all detects)



# Reporting Limit Outliers

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072011	1,2,3,4,6,7,8-HPCDD	JB	4.26	10.6	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.605	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.386	10.6	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.134	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.200	10.6	PQL	pg/L	
	1,2,3,6,7,8-HxCDD	JB	0.243	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.180	10.6	PQL	pg/L	
	1,2,3,7,8,9-HxCDD	JB	0.395	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.330	10.6	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.106	10.6	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.108	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.165	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.433	10.6	PQL	pg/L	
	2,3,7,8-TCDD	JB	0.173	2.12	PQL	pg/L	
	OCDD	JB	9.53	21.2	PQL	pg/L	
	OCDF	JB	0.986	21.2	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP04-SA6-QC-072011	1,2,3,4,6,7,8-HPCDF	JB	4.00	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.340	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.363	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.318	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.799	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.184	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.680	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.186	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.193	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0703	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.212	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.127	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0509	0.992	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0420	0.992	PQL	ng/Kg	
	OCDF	JB	8.28	9.92	PQL	ng/Kg	
SL-086-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.54	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.34	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.111	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0415	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.50	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.187	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.126	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.103	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0801	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0763	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.205	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.207	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.197	5.29	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.319	1.06	PQL	ng/Kg	
	OCDF	JB	3.14	10.6	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-086-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.260	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0598	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0191	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0176	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0451	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0196	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0408	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0354	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0212	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0283	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0243	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0664	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0323	1.07	PQL	ng/Kg	
	OCDD	JB	0.930	10.7	PQL	ng/Kg	
	OCDF	JB	0.122	10.7	PQL	ng/Kg	
SL-097-SA6-SB-1.5-2.5	1,2,3,4,7,8,9-HPCDF	JB	0.756	5.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.451	5.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.417	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.55	5.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.328	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.583	5.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.128	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.165	5.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.490	5.05	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.297	5.05	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0589	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.362	1.01	PQL	ng/Kg	
SL-162-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.79	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.320	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.08	4.95	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.645	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.35	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.405	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	2.64	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.240	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.651	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.162	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.328	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.476	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0887	0.989	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.291	0.989	PQL	ng/Kg	
SL-164-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.78	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.150	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.295	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.156	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.759	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.207	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.940	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0827	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.199	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0561	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.133	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0857	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0449	0.984	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0393	0.984	PQL	ng/Kg	
	OCDF	JB	3.88	9.84	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-165-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.64	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.149	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.260	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.131	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.738	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.146	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.737	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0821	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.157	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0641	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.117	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0825	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0342	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0919	0.996	PQL	ng/Kg	
	OCDF	JB	3.98	9.96	PQL	ng/Kg	
SL-167-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.362	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.38	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.355	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.84	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.219	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.97	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.199	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.882	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0882	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.252	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.202	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.134	0.986	PQL	ng/Kg	
SL-211-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.58	4.83	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	3.80	4.83	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	3.83	4.83	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.16	4.83	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.993	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.63	4.83	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.49	4.83	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.90	4.83	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.02	4.83	PQL	ng/Kg	
SL-215-SA6-SS-0.0-0.5	2,3,7,8-TCDD	J	0.248	0.966	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	JB	4.38	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	1.92	5.00	PQL	ng/Kg	
SL-216-SA6-SS-0.0-0.5	1,2,3,7,8-PECDF	JB	3.37	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.58	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.60	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.88	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.35	5.04	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.474	1.01	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-218-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.00	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.83	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.68	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	4.11	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.69	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.10	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.305	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.656	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.337	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.13	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.570	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.103	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.484	0.996	PQL	ng/Kg	
SL-219-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.61	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.08	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.13	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.52	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.806	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.85	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.383	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.451	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.342	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.890	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.704	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0721	0.999	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	0.866	0.999	PQL	ng/Kg	
SL-220-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	3.48	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	3.76	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.898	0.994	PQL	ng/Kg	
SL-310-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	4.21	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	4.38	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.65	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.48	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.930	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.12	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.31	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.65	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.71	4.93	PQL	ng/Kg	
SL-321-SA6-SS-0.0-0.5	2,3,7,8-TCDD	J	0.285	0.985	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	3.50	4.93	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.299	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.320	4.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.276	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.669	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.147	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.487	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.208	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.131	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0812	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.183	4.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.113	4.93	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0741	0.987	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0483	0.987	PQL	ng/Kg	
	OCDF	JB	6.42	9.87	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX116

Laboratory: LL

EDD Filename: DX116\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-322-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	2.73	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDF	JB	3.34	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.39	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.67	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	1.34	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.666	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.253	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	2.07	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.511	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.112	0.995	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.110	0.995	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX117**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Jul-2011	SL-073-SA6-SB-4.0-5.0	6353228	N	METHOD	1613B	III
21-Jul-2011	DUP05-SA6-QC-072111	6353227	FD	METHOD	1613B	III
21-Jul-2011	SL-105-SA6-SB-2.5-3.5	6353232	N	METHOD	1613B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5	6353217	N	METHOD	1613B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	6353218	MS	METHOD	1613B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	6353219	MSD	METHOD	1613B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MSD	P353217M372111	MSD	METHOD	1613B	III
21-Jul-2011	SL-228-SA6-SS-0.0-0.5MS	P353217R372014	MS	METHOD	1613B	III
21-Jul-2011	DUP06-SA6-QC-072111	6353226	FD	METHOD	1613B	III
21-Jul-2011	SL-314-SA6-SS-0.0-0.5	6353222	N	METHOD	1613B	III
21-Jul-2011	SL-315-SA6-SS-0.0-0.5	6353223	N	METHOD	1613B	III
21-Jul-2011	SL-237-SA6-SS-0.0-0.5	6353220	N	METHOD	1613B	III
21-Jul-2011	SL-316-SA6-SS-0.0-0.5	6353224	N	METHOD	1613B	III
21-Jul-2011	SL-104-SA6-SB-2.5-3.5	6353231	N	METHOD	1613B	III
21-Jul-2011	SL-318-SA6-SS-0.0-0.5	6353225	N	METHOD	1613B	III
21-Jul-2011	SL-240-SA6-SS-0.0-0.5	6353221	N	METHOD	1613B	III
21-Jul-2011	SL-081-SA6-SB-4.0-5.0	6353229	N	METHOD	1613B	III
21-Jul-2011	SL-081-SA6-SB-9.0-10.0	6353230	N	METHOD	1613B	III
22-Jul-2011	SL-233-SA6-SS-0.0-0.5	6354170	N	METHOD	1613B	III
22-Jul-2011	SL-238-SA6-SS-0.0-0.5	6354171	N	METHOD	1613B	III
22-Jul-2011	SL-241-SA6-SS-0.0-0.5	6354172	N	METHOD	1613B	III
22-Jul-2011	SL-243-SA6-SS-0.0-0.5	6354174	N	METHOD	1613B	III
22-Jul-2011	SL-244-SA6-SS-0.0-0.5	6354175	N	METHOD	1613B	III
22-Jul-2011	SL-242-SA6-SS-0.0-0.5	6354173	N	METHOD	1613B	III



## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: DUP05-SA6-QC-072111

Collected: 7/21/2011 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	3.80	JB	0.0882	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	4.85	JB	0.0770	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	3.17	J	0.0697	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.969	JB	0.0744	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.85	JB	0.101	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	13.1	B	0.0825	MDL	4.92	PQL	ng/Kg	J	FD
2,3,4,6,7,8-HxCDF	2.95	JB	0.0714	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.69	JB	0.0801	MDL	4.92	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.260	JQ	0.0400	MDL	0.985	PQL	ng/Kg	J	Z

Sample ID: DUP06-SA6-QC-072111

Collected: 7/21/2011 12:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDF	4.88	JB	0.0840	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	3.68	J	0.0733	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.973	JB	0.0872	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	7.94	B	0.0983	MDL	5.08	PQL	ng/Kg	J	FD
1,2,3,7,8-PECDF	4.53	JB	0.0621	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.63	JB	0.0623	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.653	J	0.0478	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	5500	EB	0.214	MDL	10.2	PQL	ng/Kg	J	*XI

Sample ID: SL-073-SA6-SB-4.0-5.0

Collected: 7/21/2011 10:00:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.929	J BC	0.0356	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-073-SA6-SB-4.0-5.0

Collected: 7/21/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.07	JB	0.0872	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.50	JB	0.0908	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	1.45	JB	0.0543	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	1.02	J	0.0532	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.05	JB	0.0882	MDL	5.45	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-073-SA6-SB-4.0-5.0

**Collected:** 7/21/2011 10:00:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.386	JB	0.0561	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.85	JB	0.0684	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.22	JB	0.0461	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.81	JB	0.0546	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.945	JB	0.0421	MDL	5.45	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.324	J	0.0395	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	5320	EB	0.245	MDL	10.9	PQL	ng/Kg	J	*XI

**Sample ID:** SL-081-SA6-SB-4.0-5.0

**Collected:** 7/21/2011 3:10:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.24	JB	0.0573	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.152	JBQ	0.0255	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0482	JBQ	0.0446	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0600	JBQ	0.0366	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.128	JBQ	0.0362	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0221	JQ	0.0179	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0987	JB	0.0343	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0804	JBQ	0.0375	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0177	JBQ	0.0168	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0242	JBQ	0.0191	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0345	JB	0.0153	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0392	JQ	0.0322	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0268	JBQ	0.0265	MDL	1.06	PQL	ng/Kg	U	B
OCDD	7.81	JB	0.0964	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.414	JB	0.0521	MDL	10.6	PQL	ng/Kg	U	B

**Sample ID:** SL-081-SA6-SB-9.0-10.0

**Collected:** 7/21/2011 3:20:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.05	JB	0.0575	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.102	JBQ	0.0234	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0739	JB	0.0498	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0211	JB	0.0211	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0590	JB	0.0321	MDL	5.54	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

10/27/2011 11:03:02 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-081-SA6-SB-9.0-10.0

**Collected:** 7/21/2011 3:20:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0220	JQ	0.0175	MDL	5.54	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0884	JBQ	0.0301	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0231	JBQ	0.0226	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0614	JBQ	0.0284	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0203	JBQ	0.0144	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0493	JBQ	0.0193	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0569	JBQ	0.0146	MDL	5.54	PQL	ng/Kg	U	B
OCDD	6.36	JB	0.0913	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.254	JB	0.0994	MDL	11.1	PQL	ng/Kg	U	B

**Sample ID:** SL-104-SA6-SB-2.5-3.5

**Collected:** 7/21/2011 2:40:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.76	JB	0.0403	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.181	JBQ	0.0553	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.125	JBQ	0.0545	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.483	JB	0.0408	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.495	JB	0.0541	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.238	J	0.0416	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.258	JBQ	0.0528	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.122	JBQ	0.0395	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.19	JBQ	0.0374	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.195	JB	0.0407	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.772	JB	0.0337	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0441	J	0.0373	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0845	JBQ	0.0410	MDL	1.08	PQL	ng/Kg	U	B
OCDF	10.4	JB	0.0683	MDL	10.8	PQL	ng/Kg	J	Z

**Sample ID:** SL-105-SA6-SB-2.5-3.5

**Collected:** 7/21/2011 10:59:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.55	JB	0.0460	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.745	JB	0.0235	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0715	JBQ	0.0398	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0912	JB	0.0344	MDL	5.30	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-105-SA6-SB-2.5-3.5

Collected: 7/21/2011 10:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.162	JBQ	0.0247	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.188	JB	0.0335	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.124	J	0.0226	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.132	JB	0.0323	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0621	JBQ	0.0279	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0911	JBQ	0.0267	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.203	JBQ	0.0192	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0956	JB	0.0243	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.315	JBQ	0.0193	MDL	5.30	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0444	JQ	0.0287	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0844	JB	0.0260	MDL	1.06	PQL	ng/Kg	U	B
OCDD	36.6	B	0.0931	MDL	10.6	PQL	ng/Kg	U	B
OCDF	1.46	JBQ	0.0475	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-228-SA6-SS-0.0-0.5

Collected: 7/21/2011 12:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	4.43	JB	0.0822	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.35	J	0.0754	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.898	JB	0.0794	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.23	JB	0.0945	MDL	4.86	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	2.47	JB	0.0628	MDL	4.86	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.611	J	0.0493	MDL	0.973	PQL	ng/Kg	J	Z
OCDD	5810	EB	0.187	MDL	9.73	PQL	ng/Kg	J	*XI

Sample ID: SL-233-SA6-SS-0.0-0.5

Collected: 7/22/2011 8:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.18	JB	0.0762	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.29	JB	0.0682	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.46	JB	0.0489	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.85	JB	0.0667	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.27	J	0.0415	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.06	JB	0.0670	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.294	JB	0.0594	MDL	4.98	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-233-SA6-SS-0.0-0.5

Collected: 7/22/2011 8:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	3.29	JB	0.0479	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.11	JB	0.0354	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.79	JB	0.0463	MDL	4.98	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.625	JB	0.0364	MDL	4.98	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.179	JQ	0.0289	MDL	0.997	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.358	JB	0.0599	MDL	0.997	PQL	ng/Kg	J	Z

Sample ID: SL-237-SA6-SS-0.0-0.5

Collected: 7/21/2011 2:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	1.59	JB	0.0935	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.57	JB	0.0862	MDL	4.96	PQL	ng/Kg	J	Z
OCDD	10300	EB	0.313	MDL	9.92	PQL	ng/Kg	J	*XI

Sample ID: SL-238-SA6-SS-0.0-0.5

Collected: 7/22/2011 8:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.62	JB	0.0199	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.280	JBQ	0.0464	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.211	JB	0.0367	MDL	4.91	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.473	JB	0.0324	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.637	JB	0.0364	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.200	J	0.0278	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.526	JB	0.0343	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.244	JB	0.0381	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.176	JBQ	0.0301	MDL	4.91	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.426	JBQ	0.0250	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.312	JB	0.0312	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.394	JBQ	0.0269	MDL	4.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0344	JQ	0.0271	MDL	0.983	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.259	JB	0.0435	MDL	0.983	PQL	ng/Kg	J	Z
OCDF	5.97	JB	0.0455	MDL	9.83	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-240-SA6-SS-0.0-0.5

Collected: 7/21/2011 3:01:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.23	JB	0.0329	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.259	JBQ	0.0527	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.342	JB	0.0456	MDL	5.01	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.519	JBQ	0.0406	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.798	JB	0.0468	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.288	J	0.0356	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.676	JB	0.0467	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.206	JB	0.0435	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.254	JB	0.0423	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.757	JB	0.0360	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.363	JB	0.0392	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.561	JB	0.0346	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0510	JQ	0.0376	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.316	JBQ	0.0613	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	8.95	JB	0.0501	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-241-SA6-SS-0.0-0.5

Collected: 7/22/2011 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.739	JB	0.0467	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.638	JBQ	0.0502	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.566	JB	0.0344	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.33	JB	0.0512	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.514	J	0.0306	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.13	JB	0.0481	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.203	JBQ	0.0405	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.277	JBQ	0.0360	MDL	4.94	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.182	JB	0.0270	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.611	JB	0.0322	MDL	4.94	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.277	JBQ	0.0258	MDL	4.94	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0427	J	0.0253	MDL	0.987	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.105	JBQ	0.0331	MDL	0.987	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-242-SA6-SS-0.0-0.5

**Collected:** 7/22/2011 3:27:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.04	JB	0.0496	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.664	JB	0.0668	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.863	JB	0.0471	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.62	JB	0.0679	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.710	J	0.0453	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.50	JB	0.0657	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.355	JB	0.0461	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.356	JBQ	0.0459	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.353	JBQ	0.0443	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.809	JB	0.0427	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.364	JB	0.0395	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0508	JQ	0.0360	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.228	JB	0.0531	MDL	1.00	PQL	ng/Kg	J	Z

**Sample ID:** SL-243-SA6-SS-0.0-0.5

**Collected:** 7/22/2011 2:52:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.03	JB	0.0667	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.41	JB	0.0522	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.09	JB	0.0441	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	3.55	JB	0.0525	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.823	J	0.0356	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.24	JB	0.0542	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.431	JB	0.0518	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.02	JB	0.0541	MDL	4.86	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.541	JB	0.0333	MDL	4.86	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.01	JB	0.0396	MDL	4.86	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.755	JB	0.0358	MDL	4.86	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0775	JQ	0.0331	MDL	0.971	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.282	JBQ	0.0532	MDL	0.971	PQL	ng/Kg	J	Z

**Sample ID:** SL-244-SA6-SS-0.0-0.5

**Collected:** 7/22/2011 3:08:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.21	JB	0.0648	MDL	4.90	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

10/27/2011 11:03:02 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-244-SA6-SS-0.0-0.5

Collected: 7/22/2011 3:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.772	JB	0.0547	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	2.21	JB	0.0508	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.42	JB	0.0538	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.817	J	0.0435	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.62	JB	0.0516	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.510	JBQ	0.0603	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.538	JB	0.0435	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.905	JB	0.0486	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.07	JB	0.0481	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.53	JB	0.0496	MDL	4.90	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0998	J	0.0308	MDL	0.979	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.486	JB	0.0883	MDL	0.979	PQL	ng/Kg	J	Z

Sample ID: SL-314-SA6-SS-0.0-0.5

Collected: 7/21/2011 1:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	25500	EB	3.04	MDL	42.5	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HxCDF	36.0	JB	1.15	MDL	42.5	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	26.3	JB	0.196	MDL	42.5	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	40.7	JB	0.228	MDL	42.5	PQL	ng/Kg	J	Z
OCDD	280000	EB	2.06	MDL	85.1	PQL	ng/Kg	J	*XI

Sample ID: SL-315-SA6-SS-0.0-0.5

Collected: 7/21/2011 1:37:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	7.60	J BC	0.833	MDL	8.56	PQL	ng/Kg	J	Z

Sample ID: SL-315-SA6-SS-0.0-0.5

Collected: 7/21/2011 1:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	21100	EB	2.61	MDL	42.8	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HxCDF	36.7	JB	0.933	MDL	42.8	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	25.6	JB	0.264	MDL	42.8	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	34.4	JB	0.294	MDL	42.8	PQL	ng/Kg	J	Z
OCDD	289000	EB	1.98	MDL	85.6	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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

10/27/2011 11:03:02 AM

ADR version 1.4.0.111

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## Data Qualifier Summary

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-316-SA6-SS-0.0-0.5

**Collected:** 7/21/2011 2:20:00

**Analysis Type:** REA

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	2.23	J BC	0.677	MDL	9.25	PQL	ng/Kg	J	Z

**Sample ID:** SL-316-SA6-SS-0.0-0.5

**Collected:** 7/21/2011 2:20:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	12.6	JB	0.279	MDL	46.2	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	11.3	JB	0.286	MDL	46.2	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	8.30	JB	0.254	MDL	9.25	PQL	ng/Kg	J	Z
OCDD	74300	EB	1.35	MDL	92.5	PQL	ng/Kg	J	*XI

**Sample ID:** SL-318-SA6-SS-0.0-0.5

**Collected:** 7/21/2011 2:41:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2800	EB	0.364	MDL	5.01	PQL	ng/Kg	J	*XI
1,2,3,7,8,9-HXCDF	3.37	JB	0.134	MDL	5.01	PQL	ng/Kg	J	Z
OCDD	37200	EB	0.358	MDL	10.0	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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: DX117

Laboratory: LL

EDD Filename: DX117\_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
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

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## Data Qualifier Summary

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX117

# Method Blank Outlier Report

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2150B371821	8/6/2011 6:21:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-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 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PECDD 1,2,3,7,8-PCDF 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PCDF 2,3,7,8-TCDF OCDD OCDF	1.55 ng/Kg 0.0375 ng/Kg 0.0418 ng/Kg 0.0923 ng/Kg 0.0210 ng/Kg 0.0904 ng/Kg 0.0884 ng/Kg 0.0316 ng/Kg 0.0492 ng/Kg 0.0271 ng/Kg 0.0231 ng/Kg 0.0505 ng/Kg 0.0312 ng/Kg 9.37 ng/Kg 0.101 ng/Kg	DUP05-SA6-QC-072111 DUP06-SA6-QC-072111 SL-073-SA6-SB-4.0-5.0 SL-081-SA6-SB-4.0-5.0 SL-081-SA6-SB-9.0-10.0 SL-104-SA6-SB-2.5-3.5 SL-105-SA6-SB-2.5-3.5 SL-228-SA6-SS-0.0-0.5 SL-233-SA6-SS-0.0-0.5 SL-237-SA6-SS-0.0-0.5 SL-238-SA6-SS-0.0-0.5 SL-240-SA6-SS-0.0-0.5 SL-241-SA6-SS-0.0-0.5 SL-242-SA6-SS-0.0-0.5 SL-243-SA6-SS-0.0-0.5 SL-244-SA6-SS-0.0-0.5 SL-318-SA6-SS-0.0-0.5
BLK2220B372003	8/11/2011 8:03:00 PM	1,2,3,4,6,7,8-HPCDD 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-PCDF 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PCDF 2,3,7,8-TCDD OCDD OCDF	0.288 ng/Kg 0.0535 ng/Kg 0.0287 ng/Kg 0.0201 ng/Kg 0.0276 ng/Kg 0.0380 ng/Kg 0.0102 ng/Kg 0.0395 ng/Kg 0.0235 ng/Kg 0.0211 ng/Kg 0.0321 ng/Kg 0.0245 ng/Kg 0.0487 ng/Kg 0.0120 ng/Kg 0.582 ng/Kg 0.102 ng/Kg	SL-314-SA6-SS-0.0-0.5 SL-315-SA6-SS-0.0-0.5 SL-316-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.24 ng/Kg	1.24U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.152 ng/Kg	0.152U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0482 ng/Kg	0.0482U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0600 ng/Kg	0.0600U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.128 ng/Kg	0.128U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0987 ng/Kg	0.0987U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0804 ng/Kg	0.0804U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PCDF	0.0177 ng/Kg	0.0177U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0242 ng/Kg	0.0242U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	OCDD	7.81 ng/Kg	7.81U ng/Kg
SL-081-SA6-SB-4.0-5.0(RES)	OCDF	0.414 ng/Kg	0.414U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.05 ng/Kg	1.05U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0739 ng/Kg	0.0739U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0211 ng/Kg	0.0211U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0590 ng/Kg	0.0590U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-081-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0884 ng/Kg	0.0884U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0231 ng/Kg	0.0231U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0614 ng/Kg	0.0614U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0203 ng/Kg	0.0203U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0493 ng/Kg	0.0493U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	OCDD	6.36 ng/Kg	6.36U ng/Kg
SL-081-SA6-SB-9.0-10.0(RES)	OCDF	0.254 ng/Kg	0.254U ng/Kg
SL-104-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.181 ng/Kg	0.181U ng/Kg
SL-104-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.125 ng/Kg	0.125U ng/Kg
SL-104-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.258 ng/Kg	0.258U ng/Kg
SL-104-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.122 ng/Kg	0.122U ng/Kg
SL-104-SA6-SB-2.5-3.5(RES)	2,3,7,8-TCDF	0.0845 ng/Kg	0.0845U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	4.55 ng/Kg	4.55U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0715 ng/Kg	0.0715U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0912 ng/Kg	0.0912U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.188 ng/Kg	0.188U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.132 ng/Kg	0.132U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0911 ng/Kg	0.0911U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0956 ng/Kg	0.0956U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	2,3,7,8-TCDF	0.0844 ng/Kg	0.0844U ng/Kg
SL-105-SA6-SB-2.5-3.5(RES)	OCDD	36.6 ng/Kg	36.6U ng/Kg
SL-238-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.211 ng/Kg	0.211U ng/Kg
SL-238-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.176 ng/Kg	0.176U ng/Kg
SL-240-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.342 ng/Kg	0.342U ng/Kg
SL-241-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.105 ng/Kg	0.105U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-228-SA6-SS-0.0-0.5MS SL-228-SA6-SS-0.0-0.5MSD (SL-228-SA6-SS-0.0-0.5)	1,2,3,4,6,7,8-HPCDD OCDD	148 584	- 139	40.00-135.00 40.00-135.00	- -	1,2,3,4,6,7,8-HPCDD OCDD	No Qual, >4x

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
MOISTURE	1.9	1.8	5		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-228-SA6-SS-0.0-0.5	DUP06-SA6-QC-072111			
1,2,3,4,6,7,8-HPCDD	600	561	7	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	115	116	1	50.00	
1,2,3,4,7,8,9-HPCDF	10.7	11.1	4	50.00	
1,2,3,4,7,8-HxCDD	7.93	6.48	20	50.00	
1,2,3,4,7,8-HxCDF	4.43	4.88	10	50.00	
1,2,3,6,7,8-HxCDD	23.8	22.9	4	50.00	
1,2,3,6,7,8-HxCDF	3.35	3.68	9	50.00	
1,2,3,7,8,9-HxCDD	10.2	9.06	12	50.00	
1,2,3,7,8,9-HxCDF	0.898	0.973	8	50.00	
1,2,3,7,8-PECDF	5.43	4.53	18	50.00	
2,3,4,6,7,8-HxCDF	5.61	6.02	7	50.00	
2,3,4,7,8-PECDF	2.47	2.63	6	50.00	
2,3,7,8-TCDD	0.611	0.653	7	50.00	
2,3,7,8-TCDF	1.98	2.18	10	50.00	
OCDD	5810	5500	5	50.00	
OCDF	355	344	3	50.00	
1,2,3,7,8-PECDD	2.23	7.94	112	50.00	J(all detects)

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: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP05-SA6-QC-072111	1,2,3,4,7,8-HxCDD	JB	3.80	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDF	JB	4.85	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	J	3.17	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.969	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.85	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	2.95	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.69	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.260	0.985	PQL	ng/Kg	
DUP06-SA6-QC-072111	1,2,3,4,7,8-HxCDF	JB	4.88	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HxCDF	J	3.68	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.973	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.53	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.63	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.653	1.02	PQL	ng/Kg	
SL-073-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	3.07	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	3.50	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.45	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	J	1.02	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.05	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.386	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.85	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.22	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.81	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.945	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.324	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	0.929	1.09	PQL	ng/Kg	
SL-081-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.24	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.152	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0482	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0600	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.128	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JQ	0.0221	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0987	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0804	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0177	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0242	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0345	5.29	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0392	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0268	1.06	PQL	ng/Kg	
	OCDD	JB	7.81	10.6	PQL	ng/Kg	
	OCDF	JB	0.414	10.6	PQL	ng/Kg	
SL-081-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.05	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.102	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0739	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0211	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0590	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JQ	0.0220	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0884	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0231	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0614	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0203	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0493	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0569	5.54	PQL	ng/Kg	
	OCDD	JB	6.36	11.1	PQL	ng/Kg	
	OCDF	JB	0.254	11.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-104-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDF	JB	2.76	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.181	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.125	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.483	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.495	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.238	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.258	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.122	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	1.19	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.195	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.772	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0441	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0845	1.08	PQL	ng/Kg	
	OCDF	JB	10.4	10.8	PQL	ng/Kg	
SL-105-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	4.55	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.745	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0715	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0912	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.162	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.188	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.124	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.132	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0621	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0911	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.203	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0956	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.315	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0444	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0844	1.06	PQL	ng/Kg	
	OCDF	JBQ	1.46	10.6	PQL	ng/Kg	
SL-228-SA6-SS-0.0-0.5	1,2,3,4,7,8-HXCDF	JB	4.43	4.86	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HXCDF	J	3.35	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.898	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.23	4.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.47	4.86	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.611	0.973	PQL	ng/Kg	
SL-233-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.18	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.29	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.46	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	4.85	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	1.27	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.06	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.294	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.29	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.11	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.79	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.625	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.179	0.997	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.358	0.997	PQL	ng/Kg	
SL-237-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	1.59	4.96	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	3.57	4.96	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-238-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.62	4.91	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.280	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.211	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.473	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.637	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.200	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.526	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.244	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.176	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.426	4.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.312	4.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.394	4.91	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0344	0.983	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.259	0.983	PQL	ng/Kg	
	OCDF	JB	5.97	9.83	PQL	ng/Kg	
SL-240-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.23	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.259	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.342	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.519	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.798	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.288	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.676	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.206	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.254	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.757	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.363	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.561	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0510	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.316	1.00	PQL	ng/Kg	
	OCDF	JB	8.95	10.0	PQL	ng/Kg	
SL-241-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.739	4.94	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.638	4.94	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.566	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.33	4.94	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.514	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.13	4.94	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.203	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.277	4.94	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.182	4.94	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.611	4.94	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.277	4.94	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0427	0.987	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.105	0.987	PQL	ng/Kg	
SL-242-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.04	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.664	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.863	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.62	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.710	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.50	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.355	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.356	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.353	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.809	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.364	5.01	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0508	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.228	1.00	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX117

Laboratory: LL

EDD Filename: DX117\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-243-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.03	4.86	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.41	4.86	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.09	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	3.55	4.86	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.823	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.24	4.86	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.431	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.02	4.86	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.541	4.86	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.01	4.86	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.755	4.86	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0775	0.971	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.282	0.971	PQL	ng/Kg	
SL-244-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.21	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.772	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.21	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.42	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.817	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.62	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.510	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.538	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.905	4.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.07	4.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.53	4.90	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0998	0.979	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.486	0.979	PQL	ng/Kg	
SL-314-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	36.0	42.5	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	26.3	42.5	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	40.7	42.5	PQL	ng/Kg	
SL-315-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	36.7	42.8	PQL	ng/Kg	J (all detects)
	1,2,3,7,8-PECDF	JB	25.6	42.8	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	34.4	42.8	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	7.60	8.56	PQL	ng/Kg	
SL-316-SA6-SS-0.0-0.5	1,2,3,7,8-PECDF	JB	12.6	46.2	PQL	ng/Kg	J (all detects)
	2,3,4,7,8-PECDF	JB	11.3	46.2	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	8.30	9.25	PQL	ng/Kg	
	2,3,7,8-TCDF	J BC	2.23	9.25	PQL	ng/Kg	
SL-318-SA6-SS-0.0-0.5	1,2,3,7,8,9-HXCDF	JB	3.37	5.01	PQL	ng/Kg	J (all detects)

# **SAMPLE DELIVERY GROUP**

**DX118**



## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
22-Jul-2011	SL-103-SA6-SB-4.0-5.0	6354181	N	METHOD	1613B	III
22-Jul-2011	SL-103-SA6-SB-9.0-10.0	6354182	N	METHOD	1613B	III
22-Jul-2011	SL-082-SA6-SB-4.0-5.0	6354179	N	METHOD	1613B	III
22-Jul-2011	SL-082-SA6-SB-9.0-10.0	6354180	N	METHOD	1613B	III
22-Jul-2011	SL-124-SA6-SB-4.0-5.0	6354183	N	METHOD	1613B	III
22-Jul-2011	SL-124-SA6-SB-12.5-13.5	6354184	N	METHOD	1613B	III
22-Jul-2011	SL-308-SA6-SS-0.0-0.5	6354177	N	METHOD	1613B	III
22-Jul-2011	SL-307-SA6-SS-0.0-0.5	6354176	N	METHOD	1613B	III
22-Jul-2011	SL-309-SA6-SS-0.0-0.5	6354178	N	METHOD	1613B	III
22-Jul-2011	SL-075-SA6-SB-4.0-5.0	6354185	N	METHOD	1613B	III
22-Jul-2011	SL-075-SA6-SB-9.0-10.0	6354186	N	METHOD	1613B	III
25-Jul-2011	SL-289-SA6-SB-3.5-4.5	6355068	N	METHOD	1613B	III
25-Jul-2011	SL-098-SA6-SB-2.0-3.0	6355065	N	METHOD	1613B	III
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MS	6355066	MS	METHOD	1613B	III
25-Jul-2011	SL-098-SA6-SB-2.0-3.0MSD	6355067	MSD	METHOD	1613B	III
25-Jul-2011	DUP07-SA6-QC-072511	6355069	FD	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: DUP07-SA6-QC-072511

Collected: 7/25/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.492	JB	0.0188	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.0595	JB	0.00682	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0469	JBQ	0.0140	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0234	JBQ	0.0124	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDF	0.0407	JBQ	0.00948	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDD	0.0423	JB	0.0125	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDF	0.0343	JB	0.00745	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.0424	JB	0.0126	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDF	0.0546	JB	0.0113	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0555	JBQ	0.0140	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0518	JB	0.0110	MDL	5.24	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HxCDF	0.0399	JBQ	0.00841	MDL	5.24	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0766	JBQ	0.0126	MDL	5.24	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0208	JB	0.0117	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0104	U	0.0104	MDL	1.05	PQL	ng/Kg	UJ	FD
OCDD	2.82	JB	0.0194	MDL	10.5	PQL	ng/Kg	UJ	B, FD
OCDF	0.138	JB	0.0215	MDL	10.5	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-075-SA6-SB-4.0-5.0

Collected: 7/22/2011 3:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.979	JB	0.0129	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.159	JBQ	0.0226	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0625	JB	0.0272	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0986	JB	0.0222	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.304	JB	0.0268	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0854	JB	0.0186	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.156	JB	0.0263	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0677	JBQ	0.0237	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0399	JB	0.0179	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.280	JB	0.0140	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.109	JBQ	0.0204	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.112	JB	0.0151	MDL	5.56	PQL	ng/Kg	U	B
OCDF	2.20	JB	0.0235	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-075-SA6-SB-9.0-10.0

Collected: 7/22/2011 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.61	JB	0.0391	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.789	JB	0.0528	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.96	JB	0.0419	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	3.46	JB	0.0543	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.977	JB	0.0391	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.15	JB	0.0518	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.507	JB	0.0439	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.273	JB	0.0460	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.47	JB	0.0316	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.05	JB	0.0387	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.12	JB	0.0335	MDL	5.20	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.130	JB	0.0172	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.494	J	0.0613	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-082-SA6-SB-4.0-5.0

Collected: 7/22/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.39	JB	0.0256	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.156	JB	0.0344	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0806	JB	0.0330	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.523	JB	0.0423	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.283	JBQ	0.0337	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.125	JB	0.0398	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.132	JB	0.0337	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0451	JB	0.0229	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.77	JB	0.0372	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.150	JBQ	0.0385	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.114	JB	0.0366	MDL	5.12	PQL	ng/Kg	U	B
OCDF	3.60	JB	0.0332	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-082-SA6-SB-9.0-10.0

Collected: 7/22/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.468	JBQ	0.0237	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.123	JBQ	0.0178	MDL	5.43	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-082-SA6-SB-9.0-10.0

Collected: 7/22/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0682	JB	0.0325	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0874	JB	0.0133	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0365	JBQ	0.0146	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0276	JBQ	0.0112	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0281	JBQ	0.0143	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0402	JB	0.0161	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0329	JBQ	0.0128	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0272	JBQ	0.0122	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0407	JBQ	0.0135	MDL	5.43	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0202	JQ	0.0148	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	1.95	JB	0.0257	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.204	JB	0.0292	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-098-SA6-SB-2.0-3.0

Collected: 7/25/2011 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	6.92	B	0.0363	MDL	5.13	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	1.12	JB	0.0152	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.123	JB	0.0179	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0427	JBQ	0.0262	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HXCDF	0.175	JB	0.0210	MDL	5.13	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDD	0.228	JB	0.0270	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0873	JB	0.0210	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.101	JBQ	0.0268	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0362	JB	0.0212	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0473	JBQ	0.0187	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.333	JB	0.0238	MDL	5.13	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0979	JB	0.0191	MDL	5.13	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0986	JB	0.0225	MDL	5.13	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0125	JB	0.0111	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0783	J	0.0309	MDL	1.03	PQL	ng/Kg	J	Z, FD
OCDD	92.5	B	0.0254	MDL	10.3	PQL	ng/Kg	J	FD
OCDF	3.04	JB	0.0216	MDL	10.3	PQL	ng/Kg	J	Z, FD

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-103-SA6-SB-4.0-5.0

Collected: 7/22/2011 8:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.456	JB	0.0237	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0712	JB	0.0124	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0423	JBQ	0.0222	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0370	JB	0.0135	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0501	JB	0.0108	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0603	JB	0.0138	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0445	JBQ	0.00888	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0505	JB	0.0129	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0412	JB	0.0123	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0797	JBQ	0.0157	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.102	JBQ	0.0104	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0316	JBQ	0.00984	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.106	JB	0.0113	MDL	5.34	PQL	ng/Kg	U	B
OCDD	1.56	JB	0.0214	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.141	JB	0.0241	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-103-SA6-SB-9.0-10.0

Collected: 7/22/2011 8:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.573	JB	0.0212	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.113	JBQ	0.00735	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0460	JBQ	0.0122	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0660	JBQ	0.0173	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.122	JB	0.0143	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0762	JBQ	0.0179	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.103	JB	0.0120	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0825	JBQ	0.0167	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0983	JB	0.0148	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.178	JBQ	0.0186	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.239	JB	0.0125	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0872	JB	0.0136	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.233	JB	0.0129	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.115	JB	0.0152	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.119	JQ	0.0147	MDL	1.09	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

9/28/2011 10:15:33 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-103-SA6-SB-9.0-10.0

Collected: 7/22/2011 8:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	2.29	JB	0.0193	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.202	JB	0.0221	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-124-SA6-SB-12.5-13.5

Collected: 7/22/2011 11:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.42	JB	0.0351	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.487	JB	0.0415	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.46	JB	0.0386	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.75	JB	0.0433	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.774	JB	0.0366	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.10	JB	0.0407	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.392	JB	0.0396	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.215	JB	0.0377	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.16	JB	0.0348	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.20	JB	0.0370	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.05	JB	0.0346	MDL	5.45	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.107	JBQ	0.0133	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.730	J	0.0647	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-124-SA6-SB-4.0-5.0

Collected: 7/22/2011 11:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.05	JB	0.0534	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.67	JB	0.0637	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.98	JB	0.0551	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.11	JB	0.0517	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.98	JB	0.0645	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.484	JB	0.0514	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.549	JB	0.0520	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.15	JB	0.0426	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.86	JB	0.0517	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.866	JB	0.0449	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.228	JB	0.0156	MDL	1.06	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-289-SA6-SB-3.5-4.5

Collected: 7/25/2011 8:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.451	JB	0.0197	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0839	JBQ	0.0154	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0922	JB	0.0327	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0402	JBQ	0.0138	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0655	JBQ	0.0123	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0537	JB	0.0145	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0395	JBQ	0.00980	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0812	JB	0.0140	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.108	JB	0.0143	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0657	JB	0.0176	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0686	JBQ	0.0123	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0510	JB	0.0109	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0887	JB	0.0139	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0168	JQ	0.0133	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	1.18	JB	0.0201	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.223	JB	0.0244	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-307-SA6-SS-0.0-0.5

Collected: 7/22/2011 2:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.14	JB	0.0390	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.718	JB	0.0368	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	3.78	JB	0.0612	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.43	JB	0.0389	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	1.37	JB	0.0539	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.58	JB	0.0379	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.647	JB	0.0601	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.462	JB	0.0559	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.39	JB	0.0550	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.41	JB	0.0810	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0374	JB	0.0183	MDL	1.00	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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## Data Qualifier Summary

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-308-SA6-SS-0.0-0.5

Collected: 7/22/2011 1:54:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.96	JB	0.0135	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.360	JB	0.0259	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.251	JB	0.0287	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.284	JB	0.0236	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.814	JB	0.0293	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.262	JB	0.0188	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.881	JB	0.0266	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.289	JBQ	0.0235	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PCDD	0.244	JB	0.0287	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PCDF	0.133	JB	0.0149	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.278	JB	0.0212	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PCDF	0.218	JB	0.0158	MDL	5.08	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0575	JB	0.0168	MDL	1.02	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.108	J	0.0257	MDL	1.02	PQL	ng/Kg	J	Z

Sample ID: SL-309-SA6-SS-0.0-0.5

Collected: 7/22/2011 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.569	JB	0.0427	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.568	JB	0.0372	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.13	JB	0.0492	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.65	JB	0.0381	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.597	JB	0.0400	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.33	JB	0.0389	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.363	JBQ	0.0514	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PCDD	0.405	JB	0.0345	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PCDF	2.06	JB	0.0466	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.668	JB	0.0427	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PCDF	1.59	JB	0.0491	MDL	5.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0656	JB	0.0164	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.695	J	0.0974	MDL	1.01	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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## Data Qualifier Summary

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_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: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* 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

DX118

# Method Blank Outlier Report

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method: 1613B</b> <b>Matrix: SO</b>				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2160B372223	8/6/2011 10:23:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-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	1.38 ng/Kg 0.0477 ng/Kg 0.0394 ng/Kg 0.0588 ng/Kg 0.0339 ng/Kg 0.0713 ng/Kg 0.0222 ng/Kg 0.0628 ng/Kg 0.0278 ng/Kg 0.0613 ng/Kg 0.0293 ng/Kg 0.0248 ng/Kg 0.0509 ng/Kg 0.0166 ng/Kg 8.21 ng/Kg 0.131 ng/Kg	DUP07-SA6-QC-072511 SL-075-SA6-SB-4.0-5.0 SL-075-SA6-SB-9.0-10.0 SL-082-SA6-SB-4.0-5.0 SL-082-SA6-SB-9.0-10.0 SL-098-SA6-SB-2.0-3.0 SL-103-SA6-SB-4.0-5.0 SL-103-SA6-SB-9.0-10.0 SL-124-SA6-SB-12.5-13.5 SL-124-SA6-SB-4.0-5.0 SL-289-SA6-SB-3.5-4.5 SL-307-SA6-SS-0.0-0.5 SL-308-SA6-SS-0.0-0.5 SL-309-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP07-SA6-QC-072511(RES)	1,2,3,4,6,7,8-HPCDD	0.492 ng/Kg	0.492U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,4,6,7,8-HPCDF	0.0595 ng/Kg	0.0595U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,4,7,8,9-HPCDF	0.0469 ng/Kg	0.0469U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,4,7,8-HxCDD	0.0234 ng/Kg	0.0234U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,4,7,8-HxCDF	0.0407 ng/Kg	0.0407U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,6,7,8-HxCDD	0.0423 ng/Kg	0.0423U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,6,7,8-HxCDF	0.0343 ng/Kg	0.0343U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,7,8,9-HxCDD	0.0424 ng/Kg	0.0424U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,7,8,9-HxCDF	0.0546 ng/Kg	0.0546U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,7,8-PECDD	0.0555 ng/Kg	0.0555U ng/Kg
DUP07-SA6-QC-072511(RES)	1,2,3,7,8-PECDF	0.0518 ng/Kg	0.0518U ng/Kg
DUP07-SA6-QC-072511(RES)	2,3,4,6,7,8-HxCDF	0.0399 ng/Kg	0.0399U ng/Kg
DUP07-SA6-QC-072511(RES)	2,3,4,7,8-PECDF	0.0766 ng/Kg	0.0766U ng/Kg
DUP07-SA6-QC-072511(RES)	2,3,7,8-TCDD	0.0208 ng/Kg	0.0208U ng/Kg
DUP07-SA6-QC-072511(RES)	OCDD	2.82 ng/Kg	2.82U ng/Kg
DUP07-SA6-QC-072511(RES)	OCDF	0.138 ng/Kg	0.138U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.159 ng/Kg	0.159U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0625 ng/Kg	0.0625U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0986 ng/Kg	0.0986U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.304 ng/Kg	0.304U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0854 ng/Kg	0.0854U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.156 ng/Kg	0.156U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0677 ng/Kg	0.0677U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0399 ng/Kg	0.0399U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.109 ng/Kg	0.109U ng/Kg
SL-075-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-075-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.273 ng/Kg	0.273U ng/Kg
SL-082-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.156 ng/Kg	0.156U ng/Kg
SL-082-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0806 ng/Kg	0.0806U ng/Kg

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: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-082-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.283 ng/Kg	0.283U ng/Kg
SL-082-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.132 ng/Kg	0.132U ng/Kg
SL-082-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-082-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.114 ng/Kg	0.114U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.468 ng/Kg	0.468U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.123 ng/Kg	0.123U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0874 ng/Kg	0.0874U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0365 ng/Kg	0.0365U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0276 ng/Kg	0.0276U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0281 ng/Kg	0.0281U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0402 ng/Kg	0.0402U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0329 ng/Kg	0.0329U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0272 ng/Kg	0.0272U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0407 ng/Kg	0.0407U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	OCDD	1.95 ng/Kg	1.95U ng/Kg
SL-082-SA6-SB-9.0-10.0(RES)	OCDF	0.204 ng/Kg	0.204U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.123 ng/Kg	0.123U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0427 ng/Kg	0.0427U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDD	0.228 ng/Kg	0.228U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0873 ng/Kg	0.0873U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.101 ng/Kg	0.101U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0362 ng/Kg	0.0362U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0473 ng/Kg	0.0473U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0979 ng/Kg	0.0979U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0986 ng/Kg	0.0986U ng/Kg
SL-098-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0125 ng/Kg	0.0125U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.456 ng/Kg	0.456U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0712 ng/Kg	0.0712U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0370 ng/Kg	0.0370U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0501 ng/Kg	0.0501U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0603 ng/Kg	0.0603U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0445 ng/Kg	0.0445U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0505 ng/Kg	0.0505U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0412 ng/Kg	0.0412U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0797 ng/Kg	0.0797U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0316 ng/Kg	0.0316U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg

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: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-103-SA6-SB-4.0-5.0(RES)	OCDD	1.56 ng/Kg	1.56U ng/Kg
SL-103-SA6-SB-4.0-5.0(RES)	OCDF	0.141 ng/Kg	0.141U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.573 ng/Kg	0.573U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0660 ng/Kg	0.0660U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.122 ng/Kg	0.122U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0762 ng/Kg	0.0762U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.103 ng/Kg	0.103U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0825 ng/Kg	0.0825U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0983 ng/Kg	0.0983U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.178 ng/Kg	0.178U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0872 ng/Kg	0.0872U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.233 ng/Kg	0.233U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	OCDD	2.29 ng/Kg	2.29U ng/Kg
SL-103-SA6-SB-9.0-10.0(RES)	OCDF	0.202 ng/Kg	0.202U ng/Kg
SL-124-SA6-SB-12.5-13.5(RES)	1,2,3,7,8-PECDD	0.215 ng/Kg	0.215U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.451 ng/Kg	0.451U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0922 ng/Kg	0.0922U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0402 ng/Kg	0.0402U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDF	0.0655 ng/Kg	0.0655U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HxCDD	0.0537 ng/Kg	0.0537U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HxCDF	0.0395 ng/Kg	0.0395U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HxCDD	0.0812 ng/Kg	0.0812U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HxCDF	0.108 ng/Kg	0.108U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0657 ng/Kg	0.0657U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0686 ng/Kg	0.0686U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	2,3,4,6,7,8-HxCDF	0.0510 ng/Kg	0.0510U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	OCDD	1.18 ng/Kg	1.18U ng/Kg
SL-289-SA6-SB-3.5-4.5(RES)	OCDF	0.223 ng/Kg	0.223U ng/Kg
SL-307-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0374 ng/Kg	0.0374U ng/Kg
SL-308-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.251 ng/Kg	0.251U ng/Kg
SL-308-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.244 ng/Kg	0.244U ng/Kg
SL-308-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.133 ng/Kg	0.133U ng/Kg
SL-308-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.218 ng/Kg	0.218U ng/Kg
SL-308-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0575 ng/Kg	0.0575U ng/Kg
SL-309-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0656 ng/Kg	0.0656U ng/Kg

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: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
MOISTURE	5.4	6.1	12		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-098-SA6-SB-2.0-3.0	DUP07-SA6-QC-072511			
1,2,3,7,8,9-HXCDF	0.0362	0.0546	41	50.00	No Qualifiers Applied
1,2,3,7,8-PECDD	0.0473	0.0555	16	50.00	
2,3,4,7,8-PECDF	0.0986	0.0766	25	50.00	
2,3,7,8-TCDD	0.0125	0.0208	50	50.00	
1,2,3,4,6,7,8-HPCDD	6.92	0.492	173	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	1.12	0.0595	180	50.00	
1,2,3,4,7,8,9-HPCDF	0.123	0.0469	90	50.00	
1,2,3,4,7,8-HxCDD	0.0427	0.0234	58	50.00	
1,2,3,4,7,8-HXCDF	0.175	0.0407	125	50.00	
1,2,3,6,7,8-HxCDD	0.228	0.0423	137	50.00	
1,2,3,6,7,8-HXCDF	0.0873	0.0343	87	50.00	
1,2,3,7,8,9-HxCDD	0.101	0.0424	82	50.00	
1,2,3,7,8-PECDF	0.333	0.0518	146	50.00	
2,3,4,6,7,8-HXCDF	0.0979	0.0399	84	50.00	
2,3,7,8-TCDF	0.0783	1.05 U	200	50.00	
OCDD	92.5	2.82	188	50.00	
OCDF	3.04	0.138	183	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP07-SA6-QC-072511	1,2,3,4,6,7,8-HPCDD	JB	0.492	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0595	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0469	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0234	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0407	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0423	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0343	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0424	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.0546	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0555	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0518	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0399	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0766	5.24	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0208	1.05	PQL	ng/Kg	
	OCDD	JB	2.82	10.5	PQL	ng/Kg	
	OCDF	JB	0.138	10.5	PQL	ng/Kg	
SL-075-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.979	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.159	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0625	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0986	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.304	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0854	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.156	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0677	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0399	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.280	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.109	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.112	5.56	PQL	ng/Kg	
	OCDF	JB	2.20	11.1	PQL	ng/Kg	
SL-075-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	2.61	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.789	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.96	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	3.46	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.977	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.15	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.507	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.273	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.47	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	2.05	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.12	5.20	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.130	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.494	1.04	PQL	ng/Kg	
SL-082-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.39	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.156	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0806	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.523	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.283	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.125	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.132	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0451	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.77	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.150	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.114	5.12	PQL	ng/Kg	
	OCDF	JB	3.60	10.2	PQL	ng/Kg	

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

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# Reporting Limit Outliers

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-082-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.468	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.123	5.43	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0682	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0874	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0365	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0276	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0281	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0402	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0329	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0272	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0407	5.43	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0202	1.09	PQL	ng/Kg	
	OCDD	JB	1.95	10.9	PQL	ng/Kg	
	OCDF	JB	0.204	10.9	PQL	ng/Kg	
SL-098-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JB	1.12	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.123	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0427	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.175	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.228	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0873	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.101	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0362	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0473	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.333	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0979	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0986	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0125	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0783	1.03	PQL	ng/Kg	
	OCDF	JB	3.04	10.3	PQL	ng/Kg	
SL-103-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.456	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0712	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0423	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0370	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0501	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0603	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0445	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0505	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0412	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0797	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.102	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0316	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.106	5.34	PQL	ng/Kg	
	OCDD	JB	1.56	10.7	PQL	ng/Kg	
	OCDF	JB	0.141	10.7	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-103-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.573	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.113	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0460	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0660	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.122	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0762	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.103	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0825	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.0983	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.178	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.239	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0872	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.233	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.115	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.119	1.09	PQL	ng/Kg	
	OCDD	JB	2.29	10.9	PQL	ng/Kg	
	OCDF	JB	0.202	10.9	PQL	ng/Kg	
SL-124-SA6-SB-12.5-13.5	1,2,3,4,7,8,9-HPCDF	JB	1.42	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.487	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.46	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.75	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.774	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.10	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.392	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.215	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.16	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.20	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.05	5.45	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.107	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.730	1.09	PQL	ng/Kg	
SL-124-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	3.05	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.67	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.98	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.11	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.98	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.484	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.549	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.15	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.86	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.866	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.228	1.06	PQL	ng/Kg	

## Reporting Limit Outliers

Lab Reporting Batch ID: DX118

Laboratory: LL

EDD Filename: DX118\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-289-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.451	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0839	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0922	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0402	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0655	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0537	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0395	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0812	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.108	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0657	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0686	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0510	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0887	5.18	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0168	1.04	PQL	ng/Kg	
	OCDD	JB	1.18	10.4	PQL	ng/Kg	
	OCDF	JB	0.223	10.4	PQL	ng/Kg	
SL-307-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.14	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.718	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	3.78	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.43	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.37	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.58	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.647	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.462	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.39	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.41	5.02	PQL	ng/Kg	
SL-308-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	4.96	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.360	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.251	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.284	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.814	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.262	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.881	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.289	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.244	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.133	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.278	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.218	5.08	PQL	ng/Kg	
SL-309-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HxCDD	JB	0.0575	1.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-TCDD	J	0.108	1.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.569	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.568	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.13	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.65	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.597	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.33	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.363	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.405	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.06	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.668	5.04	PQL	ng/Kg	
SL-309-SA6-SS-0.0-0.5	2,3,4,7,8-PECDF	JB	1.59	5.04	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	JB	0.0656	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.695	1.01	PQL	ng/Kg	

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

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# **SAMPLE DELIVERY GROUP**

**DX119**



## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
25-Jul-2011	SL-236-SA6-SS-0.0-0.5	6355082	N	METHOD	1613B	III
25-Jul-2011	SL-235-SA6-SS-0.0-0.5	6355081	N	METHOD	1613B	III
25-Jul-2011	SL-255-SA6-SS-0.0-0.5	6355086	N	METHOD	1613B	III
25-Jul-2011	SL-256-SA6-SS-0.0-0.5	6355087	N	METHOD	1613B	III
25-Jul-2011	SL-193-SA6-SS-0.0-0.5	6355080	N	METHOD	1613B	III
25-Jul-2011	SL-245-SA6-SS-0.0-0.5	6355083	N	METHOD	1613B	III
25-Jul-2011	SL-254-SA6-SS-0.0-0.5	6355085	N	METHOD	1613B	III
25-Jul-2011	SL-253-SA6-SS-0.0-0.5	6355084	N	METHOD	1613B	III
25-Jul-2011	SL-268-SA6-SS-0.0-0.5	6355088	N	METHOD	1613B	III
25-Jul-2011	SL-192-SA6-SS-0.0-0.5	6355079	N	METHOD	1613B	III
25-Jul-2011	SL-190-SA6-SS-0.0-0.5	6355078	N	METHOD	1613B	III
26-Jul-2011	SL-206-SA6-SS-0.0-0.5	6356792	N	METHOD	1613B	III
26-Jul-2011	SL-213-SA6-SS-0.0-0.5	6356793	N	METHOD	1613B	III
26-Jul-2011	SL-217-SA6-SS-0.0-0.5	6356794	N	METHOD	1613B	III
26-Jul-2011	SL-204-SA6-SS-0.0-0.5	6356788	N	METHOD	1613B	III
26-Jul-2011	SL-319-SA6-SS-0.0-0.5	6356796	N	METHOD	1613B	III
26-Jul-2011	SL-317-SA6-SS-0.0-0.5	6356795	N	METHOD	1613B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5	6356789	N	METHOD	1613B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MS	6356790	MS	METHOD	1613B	III
26-Jul-2011	SL-205-SA6-SS-0.0-0.5MSD	6356791	MSD	METHOD	1613B	III
26-Jul-2011	SL-013-SA6-SS-0.0-0.5	6356787	N	METHOD	1613B	III
26-Jul-2011	SL-012-SA6-SS-0.0-0.5	6356786	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-012-SA6-SS-0.0-0.5

Collected: 7/26/2011 3:02:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.16	JB	0.0219	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.242	JB	0.0273	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.258	JB	0.0502	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	1.59	JB	0.0565	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.41	JB	0.0511	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.390	JB	0.0552	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.787	JB	0.0462	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.100	JB	0.0509	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.411	JBQ	0.0538	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.10	JB	0.0635	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.353	JB	0.0520	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.434	JB	0.0617	MDL	5.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.148	JB	0.0238	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.196	J	0.0827	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	8.86	JB	0.0282	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-013-SA6-SS-0.0-0.5

Collected: 7/26/2011 2:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.378	JB	0.0337	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.541	JB	0.0539	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.94	JB	0.0663	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.73	JB	0.0525	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.664	JB	0.0606	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.07	JB	0.0503	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.397	JB	0.0451	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.08	JB	0.0643	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.748	JB	0.0587	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.76	JB	0.0589	MDL	4.90	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.454	J	0.0808	MDL	0.980	PQL	ng/Kg	J	Z
OCDF	8.65	JB	0.0346	MDL	9.80	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-190-SA6-SS-0.0-0.5

Collected: 7/25/2011 3:51:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.48	JB	0.0753	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.875	JB	0.0572	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	3.10	JB	0.0576	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	1.21	JB	0.0887	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.73	JB	0.0650	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.446	JB	0.103	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.643	JB	0.102	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.32	JB	0.0908	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.85	JB	0.115	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.126	JB	0.0361	MDL	0.989	PQL	ng/Kg	U	B

Sample ID: SL-192-SA6-SS-0.0-0.5

Collected: 7/25/2011 3:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.25	JB	0.0269	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.241	JB	0.0337	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.204	JB	0.0371	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.353	JB	0.0346	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.758	JB	0.0377	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.271	JB	0.0312	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.543	JB	0.0365	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.131	JBQ	0.0358	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.188	JB	0.0340	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	4.11	JB	0.0396	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.234	JB	0.0289	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.418	JB	0.0374	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0371	JBQ	0.0209	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.245	J	0.0494	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	6.11	JB	0.0207	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-193-SA6-SS-0.0-0.5

Collected: 7/25/2011 10:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.72	B	0.0351	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	1.73	JB	0.0142	MDL	4.92	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-193-SA6-SS-0.0-0.5

Collected: 7/25/2011 10:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.154	JBQ	0.0244	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.100	JB	0.0379	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.167	JB	0.0277	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.500	JB	0.0377	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.146	JB	0.0245	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.338	JB	0.0349	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.113	JB	0.0245	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.104	JB	0.0239	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.433	JB	0.0198	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.147	JBQ	0.0245	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.198	JB	0.0211	MDL	4.92	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.165	J	0.0360	MDL	0.984	PQL	ng/Kg	J	Z
OCDF	2.87	JB	0.0218	MDL	9.84	PQL	ng/Kg	J	Z

Sample ID: SL-204-SA6-SS-0.0-0.5

Collected: 7/26/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.67	JB	0.0568	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.26	JB	0.0421	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.02	JB	0.0486	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.84	JB	0.0431	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.18	JB	0.0393	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.31	JB	0.0377	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.397	JB	0.0541	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.557	JB	0.0567	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.03	JB	0.0367	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.41	JB	0.0452	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.636	JB	0.0389	MDL	4.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0977	JBQ	0.0262	MDL	0.970	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.365	J	0.0545	MDL	0.970	PQL	ng/Kg	J	Z

Sample ID: SL-205-SA6-SS-0.0-0.5

Collected: 7/26/2011 12:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.45	JB	0.0473	MDL	4.95	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-205-SA6-SS-0.0-0.5

Collected: 7/26/2011 12:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	1.29	JB	0.0346	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.84	JB	0.0366	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	3.36	JB	0.0736	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.73	JB	0.0329	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.953	JBQ	0.0808	MDL	4.95	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.547	JB	0.0763	MDL	4.95	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.73	JB	0.0720	MDL	4.95	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.111	JB	0.0276	MDL	0.990	PQL	ng/Kg	U	B
OCDD	744	B	0.0405	MDL	9.90	PQL	ng/Kg	J	Q, Q

Sample ID: SL-206-SA6-SS-0.0-0.5

Collected: 7/26/2011 8:18:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.50	JB	0.0278	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.346	JB	0.0318	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.323	JB	0.0416	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.622	JB	0.0358	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.13	JB	0.0428	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.322	JB	0.0342	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.766	JB	0.0416	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.335	JB	0.0337	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.277	JBQ	0.0344	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.05	JB	0.0367	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.290	JB	0.0308	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.758	JB	0.0369	MDL	5.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.162	JBQ	0.0194	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.422	JQ	0.0982	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	8.96	JB	0.0281	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-213-SA6-SS-0.0-0.5

Collected: 7/26/2011 8:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.61	JB	0.0192	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.145	JB	0.0265	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0893	JB	0.0333	MDL	4.98	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-213-SA6-SS-0.0-0.5

Collected: 7/26/2011 8:38:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.168	JBQ	0.0234	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.509	JB	0.0338	MDL	4.98	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.112	JBQ	0.0203	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.404	JB	0.0321	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.231	JB	0.0227	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.117	JBQ	0.0199	MDL	4.98	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.185	JBQ	0.0156	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.113	JB	0.0218	MDL	4.98	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.171	JBQ	0.0155	MDL	4.98	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0591	JBQ	0.0153	MDL	0.996	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0682	J	0.0277	MDL	0.996	PQL	ng/Kg	J	Z
OCDF	4.26	JB	0.0260	MDL	9.96	PQL	ng/Kg	J	Z

Sample ID: SL-217-SA6-SS-0.0-0.5

Collected: 7/26/2011 9:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.20	JB	0.0159	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.128	JB	0.0225	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0837	JB	0.0340	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.150	JBQ	0.0309	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.312	JB	0.0347	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0994	JB	0.0267	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.301	JB	0.0346	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.212	JBQ	0.0304	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0978	JBQ	0.0251	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.310	JB	0.0208	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.129	JB	0.0253	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.119	JB	0.0216	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.104	J	0.0404	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	5.29	JB	0.0330	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-235-SA6-SS-0.0-0.5

Collected: 7/25/2011 8:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.33	B	0.0188	MDL	2.53	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-235-SA6-SS-0.0-0.5

Collected: 7/25/2011 8:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.712	JB	0.00690	MDL	2.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0839	JBQ	0.0134	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0681	JB	0.0208	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0724	JBQ	0.0149	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.222	JB	0.0214	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0682	JBQ	0.0127	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.231	JB	0.0192	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.115	JB	0.0157	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0711	JBQ	0.0160	MDL	2.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.162	JB	0.00963	MDL	2.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0928	JB	0.0124	MDL	2.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.183	JBQ	0.0104	MDL	2.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0827	JQ	0.0174	MDL	0.506	PQL	ng/Kg	J	Z
OCDD	40.0	B	0.0114	MDL	5.06	PQL	ng/Kg	U	B
OCDF	2.00	JB	0.0156	MDL	5.06	PQL	ng/Kg	J	Z

Sample ID: SL-236-SA6-SS-0.0-0.5

Collected: 7/25/2011 7:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.45	B	0.0215	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.970	JB	0.00838	MDL	2.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0171	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0752	JBQ	0.0239	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0877	JBQ	0.0164	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.234	JB	0.0249	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0886	JB	0.0133	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.215	JB	0.0228	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0614	JBQ	0.0182	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0916	JBQ	0.0154	MDL	2.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.197	JBQ	0.0122	MDL	2.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.110	JBQ	0.0149	MDL	2.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.221	JBQ	0.0138	MDL	2.52	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0949	JQ	0.0187	MDL	0.503	PQL	ng/Kg	J	Z
OCDF	2.76	JB	0.0170	MDL	5.03	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-245-SA6-SS-0.0-0.5

Collected: 7/25/2011 11:39:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.40	B	0.0155	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	1.44	JB	0.00525	MDL	2.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.143	JBQ	0.0135	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0838	JBQ	0.0185	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.171	JB	0.0181	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.374	JB	0.0190	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.162	JB	0.0141	MDL	2.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.267	JB	0.0173	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.100	JB	0.0219	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.109	JBQ	0.0137	MDL	2.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.308	JB	0.0103	MDL	2.49	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.166	JB	0.0164	MDL	2.49	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.206	JB	0.0121	MDL	2.49	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0273	JB	0.0110	MDL	0.498	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.151	J	0.0187	MDL	0.498	PQL	ng/Kg	J	Z
OCDD	23.3	B	0.0131	MDL	4.98	PQL	ng/Kg	U	B
OCDF	2.63	JB	0.0157	MDL	4.98	PQL	ng/Kg	J	Z

Sample ID: SL-253-SA6-SS-0.0-0.5

Collected: 7/25/2011 2:21:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.84	B	0.0288	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	2.40	JB	0.0103	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.255	JB	0.0232	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.171	JBQ	0.0381	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.293	JBQ	0.0325	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.587	JB	0.0398	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.252	JB	0.0256	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.342	JB	0.0343	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.218	JB	0.0403	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.267	JB	0.0261	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.371	JB	0.0161	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.285	JB	0.0300	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.322	JBQ	0.0177	MDL	5.03	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-253-SA6-SS-0.0-0.5

Collected: 7/25/2011 2:21:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDD	0.0840	JB	0.0209	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.200	J	0.0263	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	33.9	B	0.0216	MDL	10.1	PQL	ng/Kg	U	B
OCDF	3.99	JB	0.0315	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-254-SA6-SS-0.0-0.5

Collected: 7/25/2011 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.10	JB	0.0179	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.237	JB	0.0235	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.174	JBQ	0.0498	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.296	JBQ	0.0338	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.819	JB	0.0493	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.336	JB	0.0320	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.655	JBQ	0.0462	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.200	JB	0.0356	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.168	JBQ	0.0304	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.786	JB	0.0279	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.244	JB	0.0336	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.503	JB	0.0285	MDL	4.92	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0277	JB	0.0228	MDL	0.984	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.376	J	0.0523	MDL	0.984	PQL	ng/Kg	J	Z
OCDF	5.97	JB	0.0207	MDL	9.84	PQL	ng/Kg	J	Z

Sample ID: SL-255-SA6-SS-0.0-0.5

Collected: 7/25/2011 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.01	JB	0.0382	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	1.25	JB	0.0139	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.145	JBQ	0.0306	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.118	JB	0.0422	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.222	JB	0.0315	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.284	JB	0.0445	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.119	JB	0.0252	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.218	JBQ	0.0385	MDL	5.03	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-255-SA6-SS-0.0-0.5

Collected: 7/25/2011 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0981	JB	0.0370	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.107	JBQ	0.0275	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.464	JBQ	0.0292	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.115	JB	0.0270	MDL	5.03	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.157	JB	0.0342	MDL	5.03	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0338	JBQ	0.0236	MDL	1.01	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.100	JQ	0.0718	MDL	1.01	PQL	ng/Kg	J	Z
OCDD	34.6	B	0.0264	MDL	10.1	PQL	ng/Kg	U	B
OCDF	3.12	JB	0.0365	MDL	10.1	PQL	ng/Kg	J	Z

Sample ID: SL-256-SA6-SS-0.0-0.5

Collected: 7/25/2011 10:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.90	JB	0.0104	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.233	JB	0.0250	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0996	JB	0.0378	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.212	JB	0.0269	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.397	JB	0.0368	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.208	JBQ	0.0218	MDL	4.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.304	JB	0.0379	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.146	JBQ	0.0338	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0900	JB	0.0305	MDL	4.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.749	JB	0.0195	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.183	JB	0.0244	MDL	4.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.254	JB	0.0225	MDL	4.85	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.162	J	0.0354	MDL	0.969	PQL	ng/Kg	J	Z
OCDF	3.81	JB	0.0283	MDL	9.69	PQL	ng/Kg	J	Z

Sample ID: SL-268-SA6-SS-0.0-0.5

Collected: 7/25/2011 2:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.924	JB	0.0306	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.912	JB	0.0457	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.83	JB	0.0478	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	3.61	JB	0.0468	MDL	4.99	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-268-SA6-SS-0.0-0.5			Collected: 7/25/2011 2:53:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	1.51	JB	0.0451	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.24	JB	0.0446	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.538	JB	0.0448	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.692	JB	0.0679	MDL	4.99	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.73	JB	0.0600	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.74	JB	0.0429	MDL	4.99	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.89	JB	0.0544	MDL	4.99	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.129	JB	0.0258	MDL	0.999	PQL	ng/Kg	U	B

Sample ID: SL-317-SA6-SS-0.0-0.5			Collected: 7/26/2011 11:50:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	3.00	JB	0.0527	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.08	JB	0.0729	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.39	JB	0.0612	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.540	JB	0.0887	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.24	JB	0.0687	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.18	JB	0.0572	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	4.29	JB	0.0721	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.42	JB	0.0629	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.161	JBQ	0.0262	MDL	0.991	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.671	J	0.129	MDL	0.991	PQL	ng/Kg	J	Z

Sample ID: SL-319-SA6-SS-0.0-0.5			Collected: 7/26/2011 10:22:00		Analysis Type: RES			Dilution: 1	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.85	JB	0.0520	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.28	JB	0.0542	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.02	JB	0.0673	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	4.69	JB	0.0492	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.06	JB	0.0726	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.43	JB	0.0806	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.73	JB	0.0658	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.20	JB	0.0673	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.279	JB	0.0404	MDL	0.992	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## *Data Qualifier Summary*

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_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: 1203-004-009-AL - SSFL Area IV Collocated Soil Sampling

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* 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**

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

# Quality Control Outlier Reports

DX119

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method: 1613B**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-205-SA6-SS-0.0-0.5MSD (SL-205-SA6-SS-0.0-0.5)	OCDD	-	-34	40.00-135.00	28 (20.00)	OCDD	J (all detects) R (all non-detects)

# Method Blank Outlier Report

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2170B371618	8/9/2011 4:18:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-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	1.47 ng/Kg 0.0539 ng/Kg 0.0538 ng/Kg 0.0904 ng/Kg 0.0378 ng/Kg 0.0842 ng/Kg 0.0311 ng/Kg 0.0945 ng/Kg 0.0531 ng/Kg 0.0430 ng/Kg 0.0533 ng/Kg 0.0287 ng/Kg 0.0573 ng/Kg 0.0271 ng/Kg 8.90 ng/Kg 0.140 ng/Kg	SL-012-SA6-SS-0.0-0.5 SL-013-SA6-SS-0.0-0.5 SL-190-SA6-SS-0.0-0.5 SL-192-SA6-SS-0.0-0.5 SL-193-SA6-SS-0.0-0.5 SL-204-SA6-SS-0.0-0.5 SL-205-SA6-SS-0.0-0.5 SL-206-SA6-SS-0.0-0.5 SL-213-SA6-SS-0.0-0.5 SL-217-SA6-SS-0.0-0.5 SL-235-SA6-SS-0.0-0.5 SL-236-SA6-SS-0.0-0.5 SL-245-SA6-SS-0.0-0.5 SL-253-SA6-SS-0.0-0.5 SL-254-SA6-SS-0.0-0.5 SL-255-SA6-SS-0.0-0.5 SL-256-SA6-SS-0.0-0.5 SL-268-SA6-SS-0.0-0.5 SL-317-SA6-SS-0.0-0.5 SL-319-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-012-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.242 ng/Kg	0.242U ng/Kg
SL-012-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.258 ng/Kg	0.258U ng/Kg
SL-012-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.100 ng/Kg	0.100U ng/Kg
SL-190-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.126 ng/Kg	0.126U ng/Kg
SL-192-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.241 ng/Kg	0.241U ng/Kg
SL-192-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.204 ng/Kg	0.204U ng/Kg
SL-192-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.131 ng/Kg	0.131U ng/Kg
SL-192-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.188 ng/Kg	0.188U ng/Kg
SL-192-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0371 ng/Kg	0.0371U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	5.72 ng/Kg	5.72U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.154 ng/Kg	0.154U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.100 ng/Kg	0.100U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDF	0.167 ng/Kg	0.167U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.146 ng/Kg	0.146U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.338 ng/Kg	0.338U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.113 ng/Kg	0.113U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.104 ng/Kg	0.104U ng/Kg
SL-193-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.198 ng/Kg	0.198U ng/Kg
SL-204-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0977 ng/Kg	0.0977U ng/Kg
SL-205-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.111 ng/Kg	0.111U ng/Kg
SL-206-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.323 ng/Kg	0.323U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0893 ng/Kg	0.0893U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDF	0.168 ng/Kg	0.168U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.112 ng/Kg	0.112U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.404 ng/Kg	0.404U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.231 ng/Kg	0.231U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-213-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.117 ng/Kg	0.117U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.185 ng/Kg	0.185U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.171 ng/Kg	0.171U ng/Kg
SL-213-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0591 ng/Kg	0.0591U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.128 ng/Kg	0.128U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0837 ng/Kg	0.0837U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.150 ng/Kg	0.150U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDD	0.312 ng/Kg	0.312U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0994 ng/Kg	0.0994U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.301 ng/Kg	0.301U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.212 ng/Kg	0.212U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0978 ng/Kg	0.0978U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-217-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.119 ng/Kg	0.119U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	3.33 ng/Kg	3.33U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0839 ng/Kg	0.0839U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0681 ng/Kg	0.0681U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0724 ng/Kg	0.0724U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDD	0.222 ng/Kg	0.222U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0682 ng/Kg	0.0682U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.231 ng/Kg	0.231U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.115 ng/Kg	0.115U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0711 ng/Kg	0.0711U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.162 ng/Kg	0.162U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0928 ng/Kg	0.0928U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.183 ng/Kg	0.183U ng/Kg
SL-235-SA6-SS-0.0-0.5(RES)	OCDD	40.0 ng/Kg	40.0U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	4.45 ng/Kg	4.45U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0752 ng/Kg	0.0752U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0877 ng/Kg	0.0877U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDD	0.234 ng/Kg	0.234U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0886 ng/Kg	0.0886U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.215 ng/Kg	0.215U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0614 ng/Kg	0.0614U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0916 ng/Kg	0.0916U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.197 ng/Kg	0.197U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-236-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.221 ng/Kg	0.221U ng/Kg

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: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-245-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	3.40 ng/Kg	3.40U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.143 ng/Kg	0.143U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0838 ng/Kg	0.0838U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDF	0.171 ng/Kg	0.171U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDD	0.374 ng/Kg	0.374U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.267 ng/Kg	0.267U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.100 ng/Kg	0.100U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.109 ng/Kg	0.109U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PCDF	0.206 ng/Kg	0.206U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0273 ng/Kg	0.0273U ng/Kg
SL-245-SA6-SS-0.0-0.5(RES)	OCDD	23.3 ng/Kg	23.3U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	5.84 ng/Kg	5.84U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.255 ng/Kg	0.255U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.171 ng/Kg	0.171U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.342 ng/Kg	0.342U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.218 ng/Kg	0.218U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0840 ng/Kg	0.0840U ng/Kg
SL-253-SA6-SS-0.0-0.5(RES)	OCDD	33.9 ng/Kg	33.9U ng/Kg
SL-254-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.237 ng/Kg	0.237U ng/Kg
SL-254-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.174 ng/Kg	0.174U ng/Kg
SL-254-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.200 ng/Kg	0.200U ng/Kg
SL-254-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.168 ng/Kg	0.168U ng/Kg
SL-254-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0277 ng/Kg	0.0277U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	4.01 ng/Kg	4.01U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.145 ng/Kg	0.145U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.118 ng/Kg	0.118U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDD	0.284 ng/Kg	0.284U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.119 ng/Kg	0.119U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.218 ng/Kg	0.218U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.0981 ng/Kg	0.0981U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.107 ng/Kg	0.107U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.115 ng/Kg	0.115U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PCDF	0.157 ng/Kg	0.157U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.0338 ng/Kg	0.0338U ng/Kg
SL-255-SA6-SS-0.0-0.5(RES)	OCDD	34.6 ng/Kg	34.6U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.233 ng/Kg	0.233U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0996 ng/Kg	0.0996U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDD	0.397 ng/Kg	0.397U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.304 ng/Kg	0.304U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.146 ng/Kg	0.146U ng/Kg

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: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B

**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-256-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0900 ng/Kg	0.0900U ng/Kg
SL-256-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.254 ng/Kg	0.254U ng/Kg
SL-268-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.129 ng/Kg	0.129U ng/Kg



# Reporting Limit Outliers

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-012-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.16	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.242	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.258	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.59	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.41	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.390	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.787	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.100	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.411	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.10	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.353	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.434	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.148	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.196	1.02	PQL	ng/Kg	
	OCDF	JB	8.86	10.2	PQL	ng/Kg	
SL-013-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.378	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.541	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.94	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.73	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.664	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.07	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.397	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.08	4.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.748	4.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.76	4.90	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.454	0.980	PQL	ng/Kg	
	OCDF	JB	8.65	9.80	PQL	ng/Kg	
SL-190-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.48	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.875	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	3.10	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.21	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.73	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.446	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.643	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.32	4.95	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.85	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.126	0.989	PQL	ng/Kg	
SL-192-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.25	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.241	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.204	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.353	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.758	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.271	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.543	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.131	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.188	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	4.11	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.234	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.418	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0371	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.245	1.01	PQL	ng/Kg	
	OCDF	JB	6.11	10.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.73	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HPCDF	JBQ	0.154	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.100	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.167	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.500	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.146	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.338	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.113	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.104	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.433	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.147	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.198	4.92	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.165	0.984	PQL	ng/Kg	
	OCDF	JB	2.87	9.84	PQL	ng/Kg	
SL-204-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.67	4.85	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.26	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.02	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.84	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.18	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.31	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.397	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.557	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.03	4.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.41	4.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.636	4.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0977	0.970	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.365	0.970	PQL	ng/Kg	
SL-205-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.45	4.95	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.29	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.84	4.95	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.36	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.73	4.95	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.953	4.95	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.547	4.95	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.73	4.95	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.111	0.990	PQL	ng/Kg	
SL-206-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.50	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.346	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.323	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.622	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.13	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.322	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.766	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.335	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.277	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.05	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.290	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.758	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.162	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.422	1.03	PQL	ng/Kg	
	OCDF	JB	8.96	10.3	PQL	ng/Kg	

## Reporting Limit Outliers

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-213-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.61	4.98	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.145	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0893	4.98	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.168	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.509	4.98	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.112	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.404	4.98	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.231	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.117	4.98	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.185	4.98	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.113	4.98	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.171	4.98	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0591	0.996	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0682	0.996	PQL	ng/Kg	
	OCDF	JB	4.26	9.96	PQL	ng/Kg	
SL-217-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.20	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.128	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0837	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.150	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.312	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0994	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.301	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.212	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0978	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.310	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.129	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.119	5.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.104	1.03	PQL	ng/Kg	
	OCDF	JB	5.29	10.3	PQL	ng/Kg	
SL-235-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.712	2.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0839	2.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0681	2.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0724	2.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.222	2.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0682	2.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.231	2.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.115	2.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0711	2.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.162	2.53	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0928	2.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.183	2.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0827	0.506	PQL	ng/Kg	
	OCDF	JB	2.00	5.06	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-236-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.970	2.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.105	2.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0752	2.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0877	2.52	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.234	2.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0886	2.52	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.215	2.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0614	2.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0916	2.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.197	2.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.110	2.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.221	2.52	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0949	0.503	PQL	ng/Kg	
	OCDF	JB	2.76	5.03	PQL	ng/Kg	
SL-245-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.44	2.49	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.143	2.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0838	2.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.171	2.49	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.374	2.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.162	2.49	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.267	2.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.100	2.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.109	2.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.308	2.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.166	2.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.206	2.49	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0273	0.498	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.151	0.498	PQL	ng/Kg	
	OCDF	JB	2.63	4.98	PQL	ng/Kg	
SL-253-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	2.40	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.255	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.171	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.293	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.587	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.252	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.342	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.218	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.267	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.371	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.285	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.322	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0840	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.200	1.01	PQL	ng/Kg	
	OCDF	JB	3.99	10.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-254-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.10	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.237	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.174	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.296	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.819	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.336	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.655	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.200	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.168	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.786	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.244	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.503	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0277	0.984	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.376	0.984	PQL	ng/Kg	
	OCDF	JB	5.97	9.84	PQL	ng/Kg	
SL-255-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.01	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.25	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.145	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.118	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.222	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.284	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.119	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.218	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0981	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.107	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.464	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.115	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.157	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0338	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.100	1.01	PQL	ng/Kg	
	OCDF	JB	3.12	10.1	PQL	ng/Kg	
SL-256-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.90	4.85	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.233	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0996	4.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.212	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.397	4.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.208	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.304	4.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.146	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0900	4.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.749	4.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.183	4.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.254	4.85	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.162	0.969	PQL	ng/Kg	
	OCDF	JB	3.81	9.69	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX119

Laboratory: LL

EDD Filename: DX119\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-268-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.924	4.99	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.912	4.99	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.83	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	3.61	4.99	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.51	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.24	4.99	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.538	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.692	4.99	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.73	4.99	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.74	4.99	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.89	4.99	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.129	0.999	PQL	ng/Kg	
SL-317-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	3.00	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDF	JB	4.08	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	3.39	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.540	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.24	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.18	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	4.29	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.42	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.161	0.991	PQL	ng/Kg	
SL-319-SA6-SS-0.0-0.5	2,3,7,8-TCDF	J	0.671	0.991	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	2.85	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	2.28	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	3.02	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	4.69	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	1.06	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.43	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	2.73	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.20	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.279	0.992	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX120**

## **Attachment I**

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



## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Jul-2011	SL-077-SA6-SB-4.0-5.0	6356798	N	METHOD	1613B	III
26-Jul-2011	SL-077-SA6-SB-9.0-10.0	6356799	N	METHOD	1613B	III
26-Jul-2011	SL-080-SA6-SB-3.5-4.5	6356800	N	METHOD	1613B	III
26-Jul-2011	EB-SA6-SS-072611	6356801	EB	METHOD	1613B	III
26-Jul-2011	SL-311-SA6-SS-0.0-0.5	6356802	N	METHOD	1613B	III
26-Jul-2011	DUP08-SA6-QC-072611	6356797	FD	METHOD	1613B	III
27-Jul-2011	SL-028-SA6-SS-0.0-0.5	6358402	N	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5	6358398	N	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	6358399	MS	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	6358400	MSD	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MSD	P358398M371933	MSD	METHOD	1613B	III
27-Jul-2011	SL-009-SA6-SS-0.0-0.5MS	P358398R371837	MS	METHOD	1613B	III
27-Jul-2011	DUP09-SA6-QC-072711	6358403	FD	METHOD	1613B	III
27-Jul-2011	SL-069-SA6-SB-4.0-5.0	6358404	N	METHOD	1613B	III
27-Jul-2011	SL-069-SA6-SB-9.0-10.0	6358405	N	METHOD	1613B	III
27-Jul-2011	SL-017-SA6-SS-0.0-0.5	6358401	N	METHOD	1613B	III
27-Jul-2011	SL-089-SA6-SB-4.0-5.0	6358407	N	METHOD	1613B	III
27-Jul-2011	SL-089-SA6-SB-9.0-10.0	6358408	N	METHOD	1613B	III
27-Jul-2011	SL-076-SA6-SB-2.0-3.0	6358406	N	METHOD	1613B	III
27-Jul-2011	SL-117-SA6-SB-2.0-3.0	6358409	N	METHOD	1613B	III
27-Jul-2011	EB-SA6-SB-072711	6358412	EB	METHOD	1613B	III
27-Jul-2011	SL-179-SA5DN-SB-4.0-5.0	6358410	N	METHOD	1613B	III
27-Jul-2011	SL-179-SA5DN-SB-9.0-10.0	6358411	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** AQ

Sample ID: EB-SA6-SB-072711

Collected: 7/27/2011 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.95	JB	0.566	MDL	9.80	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.567	JBQ	0.215	MDL	9.80	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.369	JBQ	0.346	MDL	9.80	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDF	0.225	JBQ	0.210	MDL	9.80	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.334	JBQ	0.216	MDL	9.80	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDD	0.679	JBQ	0.360	MDL	9.80	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	0.463	JB	0.213	MDL	9.80	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.377	JQ	0.292	MDL	9.80	PQL	pg/L	J	Z
2,3,4,7,8-PECDF	0.611	JBQ	0.254	MDL	9.80	PQL	pg/L	U	B
2,3,7,8-TCDF	0.571	JQ	0.534	MDL	1.96	PQL	pg/L	J	Z
OCDD	5.10	JBQ	0.418	MDL	19.6	PQL	pg/L	U	B
OCDF	0.922	JB	0.542	MDL	19.6	PQL	pg/L	U	B

Sample ID: EB-SA6-SS-072611

Collected: 7/26/2011 11:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.71	JBQ	0.646	MDL	9.94	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.69	JB	0.317	MDL	9.94	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.449	JBQ	0.335	MDL	9.94	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDD	0.484	JB	0.423	MDL	9.94	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.392	JBQ	0.308	MDL	9.94	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDD	0.576	JBQ	0.428	MDL	9.94	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	1.09	JBQ	0.319	MDL	9.94	PQL	pg/L	U	B
1,2,3,7,8-PECDF	1.65	JQ	0.373	MDL	9.94	PQL	pg/L	J	Z
2,3,4,6,7,8-HxCDF	0.368	JBQ	0.287	MDL	9.94	PQL	pg/L	U	B
2,3,4,7,8-PECDF	1.95	JBQ	0.334	MDL	9.94	PQL	pg/L	U	B
OCDD	7.99	JB	0.446	MDL	19.9	PQL	pg/L	U	B
OCDF	1.26	JBQ	0.727	MDL	19.9	PQL	pg/L	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: DUP08-SA6-QC-072611

Collected: 7/26/2011 12:14:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.49	JB	0.0474	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.737	JB	0.0239	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.66	JB	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.69	JB	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.822	JBQ	0.0427	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.363	JB	0.0350	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.80	JB	0.0371	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0680	JB	0.0193	MDL	1.02	PQL	ng/Kg	U	B

Sample ID: DUP09-SA6-QC-072711

Collected: 7/27/2011 8:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.92	JB	0.0370	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.50	JB	0.0298	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	2.79	JB	0.0383	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.63	JB	0.0283	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.819	JB	0.0345	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.24	JB	0.0421	MDL	4.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.90	JB	0.0482	MDL	4.93	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HxCDF	2.84	JB	0.0318	MDL	4.93	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	1.32	B	0.0202	MDL	0.986	PQL	ng/Kg	J	FD

Sample ID: SL-009-SA6-SS-0.0-0.5

Collected: 7/27/2011 8:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.83	JB	0.0305	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.58	JB	0.0282	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	3.33	JB	0.0351	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.42	JB	0.0267	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.876	JB	0.0345	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.32	JB	0.0449	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	10.3	B	0.0513	MDL	5.08	PQL	ng/Kg	J	FD
2,3,4,6,7,8-HxCDF	3.16	JB	0.0326	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	6.67	B	0.0211	MDL	1.02	PQL	ng/Kg	J	FD
OCDF	80.5	B	0.0230	MDL	10.2	PQL	ng/Kg	J	Q, Q

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-017-SA6-SS-0.0-0.5

**Collected:** 7/27/2011 9:14:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	4.75	JB	0.0824	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	4.18	JB	0.0557	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	1.17	JB	0.0596	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.18	JB	0.0588	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.36	JB	0.0388	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.326	JB	0.0244	MDL	1.00	PQL	ng/Kg	J	Z
OCDD	21800	EB	0.188	MDL	10.0	PQL	ng/Kg	J	*XI

**Sample ID:** SL-028-SA6-SS-0.0-0.5

**Collected:** 7/27/2011 7:30:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.52	JB	0.0345	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.77	JB	0.0342	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.81	JB	0.0319	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.964	JB	0.0519	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.49	JB	0.0602	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	4.02	JB	0.0450	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.302	JB	0.0197	MDL	1.01	PQL	ng/Kg	J	Z

**Sample ID:** SL-069-SA6-SB-4.0-5.0

**Collected:** 7/27/2011 8:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.401	JB	0.0121	MDL	5.22	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.124	JBQ	0.0248	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0266	JB	0.0154	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.104	JBQ	0.0163	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.120	JB	0.0158	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0597	JB	0.0130	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.107	JB	0.0154	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0782	JB	0.0168	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0351	JBQ	0.0119	MDL	5.22	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0526	JBQ	0.0121	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0733	JB	0.0136	MDL	5.22	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.106	JBQ	0.0124	MDL	5.22	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0117	JBQ	0.0105	MDL	1.04	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-069-SA6-SB-4.0-5.0

**Collected:** 7/27/2011 8:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0257	JBQ	0.0147	MDL	1.04	PQL	ng/Kg	U	B
OCDF	0.991	JB	0.0310	MDL	10.4	PQL	ng/Kg	J	Z

**Sample ID:** SL-069-SA6-SB-9.0-10.0

**Collected:** 7/27/2011 8:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.37	JB	0.0191	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.150	JBQ	0.00885	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0618	JB	0.0161	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0355	JBQ	0.0136	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.358	JB	0.0178	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.0808	JB	0.0145	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0515	JBQ	0.0146	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.143	JB	0.0126	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.164	JBQ	0.0171	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0451	JBQ	0.0131	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.140	JB	0.0156	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0593	JB	0.0125	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.261	JBQ	0.0164	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0825	JB	0.0313	MDL	1.10	PQL	ng/Kg	U	B
OCDD	10.5	JB	0.0240	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.396	JB	0.0255	MDL	11.0	PQL	ng/Kg	U	B

**Sample ID:** SL-076-SA6-SB-2.0-3.0

**Collected:** 7/27/2011 11:05:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.473	JB	0.0199	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0433	JBQ	0.00542	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0620	JBQ	0.0125	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0199	JBQ	0.0146	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0227	JBQ	0.0119	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0393	JBQ	0.0154	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0311	JB	0.00975	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0689	JBQ	0.0148	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0310	JBQ	0.0160	MDL	5.41	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-076-SA6-SB-2.0-3.0

Collected: 7/27/2011 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0268	JBQ	0.00769	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0152	JBQ	0.0102	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0478	JBQ	0.00823	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0638	JB	0.0180	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0129	JBQ	0.0116	MDL	1.08	PQL	ng/Kg	U	B
OCDD	0.974	JB	0.0217	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.135	JBQ	0.0341	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-077-SA6-SB-4.0-5.0

Collected: 7/26/2011 9:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.83	JB	0.0336	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.326	JB	0.0484	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.102	JBQ	0.0283	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.174	JBQ	0.0246	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.518	JB	0.0294	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JBQ	0.0239	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.220	JB	0.0284	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0880	JB	0.0279	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0581	JB	0.0166	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.655	JB	0.0156	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.204	JBQ	0.0244	MDL	5.38	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.282	JB	0.0150	MDL	5.38	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0208	JB	0.0141	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0649	JB	0.0221	MDL	1.08	PQL	ng/Kg	U	B
OCDF	5.93	JB	0.0586	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-077-SA6-SB-9.0-10.0

Collected: 7/26/2011 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.48	JB	0.0236	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.238	JB	0.0226	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.19	JB	0.0226	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.931	JB	0.0235	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.944	JB	0.0205	MDL	5.73	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-077-SA6-SB-9.0-10.0

**Collected:** 7/26/2011 9:50:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.421	JBQ	0.0238	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.806	JB	0.0254	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.231	JBQ	0.0178	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.926	JB	0.0223	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.13	JB	0.0212	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.24	JB	0.0213	MDL	5.73	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0576	JBQ	0.0121	MDL	1.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.481	JB	0.0397	MDL	1.15	PQL	ng/Kg	J	Z

**Sample ID:** SL-080-SA6-SB-3.5-4.5

**Collected:** 7/26/2011 10:50:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.435	JB	0.0136	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0648	JBQ	0.00775	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0331	JBQ	0.0133	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0177	JBQ	0.00984	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0497	JB	0.0135	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0438	JBQ	0.0103	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0325	JBQ	0.0114	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0446	JBQ	0.0102	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0502	JBQ	0.0145	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0156	JBQ	0.0112	MDL	5.19	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0287	JB	0.0114	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0566	JBQ	0.0124	MDL	5.19	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0625	JBQ	0.0110	MDL	5.19	PQL	ng/Kg	U	B
OCDD	1.08	JB	0.0138	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.172	JB	0.0185	MDL	10.4	PQL	ng/Kg	U	B

**Sample ID:** SL-089-SA6-SB-4.0-5.0

**Collected:** 7/27/2011 9:50:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.27	JB	0.0103	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.189	JB	0.0169	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0727	JBQ	0.0159	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.212	JBQ	0.0147	MDL	5.40	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-089-SA6-SB-4.0-5.0

Collected: 7/27/2011 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.370	JB	0.0162	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.119	JB	0.0132	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.176	JB	0.0159	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0618	JBQ	0.0163	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0484	JB	0.0134	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.497	JB	0.0140	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.151	JB	0.0134	MDL	5.40	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.429	JB	0.0135	MDL	5.40	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0209	JBQ	0.00989	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.205	JB	0.0245	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	2.80	JB	0.0201	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-089-SA6-SB-9.0-10.0

Collected: 7/27/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.44	JB	0.0153	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.473	JB	0.0214	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.346	JB	0.0224	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.396	JB	0.0177	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.26	JB	0.0228	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.216	JB	0.0153	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.570	JB	0.0229	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JBQ	0.0169	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.385	JB	0.0171	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.111	JB	0.0127	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.323	JB	0.0141	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.357	JB	0.0124	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0567	JBQ	0.0101	MDL	1.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.204	JB	0.0189	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-117-SA6-SB-2.0-3.0

Collected: 7/27/2011 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.484	JB	0.0137	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.136	JB	0.00699	MDL	5.14	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-117-SA6-SB-2.0-3.0

Collected: 7/27/2011 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0624	JB	0.0154	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0452	JBQ	0.00960	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0963	JBQ	0.00960	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0527	JB	0.0100	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0715	JB	0.00762	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0756	JB	0.00929	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0586	JBQ	0.0100	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0959	JBQ	0.00971	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.102	JB	0.00605	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0610	JB	0.00835	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.131	JB	0.00605	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0404	JB	0.00939	MDL	1.03	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0225	JBQ	0.00856	MDL	1.03	PQL	ng/Kg	U	B
OCDD	2.07	JB	0.0143	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.349	JB	0.0195	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-179-SA5DN-SB-4.0-5.0

Collected: 7/27/2011 2:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.33	JB	0.0382	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.90	JB	0.0547	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.982	JB	0.0282	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.11	JB	0.0255	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.11	JB	0.0528	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.328	JB	0.0335	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.713	JB	0.0352	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.638	JB	0.0158	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.80	JB	0.0273	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.626	JB	0.0159	MDL	5.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0859	JB	0.0140	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.126	JB	0.0284	MDL	1.03	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-179-SA5DN-SB-9.0-10.0

Collected: 7/27/2011 2:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.852	JB	0.00889	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.111	JBQ	0.0168	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0800	JB	0.0200	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0747	JB	0.0122	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.311	JB	0.0201	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0642	JB	0.0103	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.145	JB	0.0205	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0285	JB	0.0130	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0536	JB	0.0137	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0467	JB	0.00730	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0903	JB	0.0107	MDL	5.52	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0887	JBQ	0.00718	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0116	JBQ	0.0105	MDL	1.10	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0278	JBQ	0.0131	MDL	1.10	PQL	ng/Kg	U	B
OCDF	1.98	JB	0.0200	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-311-SA6-SS-0.0-0.5

Collected: 7/26/2011 11:31:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.49	JB	0.0259	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.63	JB	0.0225	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.48	JB	0.0223	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.06	JB	0.0373	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.151	JB	0.0228	MDL	1.01	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

10/27/2011 11:35:26 AM

ADR version 1.4.0.111

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## Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_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
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

\* denotes a non-reportable result

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

10/27/2011 11:35:26 AM

ADR version 1.4.0.111

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

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## Data Qualifier Summary

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

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## **Enclosure I**

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

# Quality Control Outlier Reports

DX120



# Method Blank Outlier Report

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2340B371734	8/23/2011 5:34:00 PM	1,2,3,4,6,7,8-HPCDD 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 OCDD OCDF	2.80 pg/L 0.632 pg/L 0.512 pg/L 0.765 pg/L 0.547 pg/L 0.856 pg/L 0.489 pg/L 0.876 pg/L 0.588 pg/L 0.858 pg/L 0.562 pg/L 1.02 pg/L 6.56 pg/L 2.84 pg/L	EB-SA6-SB-072711 EB-SA6-SS-072611

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-072711(RES)	1,2,3,4,6,7,8-HPCDD	2.95 pg/L	2.95U pg/L
EB-SA6-SB-072711(RES)	1,2,3,4,6,7,8-HPCDF	0.567 pg/L	0.567U pg/L
EB-SA6-SB-072711(RES)	1,2,3,4,7,8-HxCDD	0.369 pg/L	0.369U pg/L
EB-SA6-SB-072711(RES)	1,2,3,4,7,8-HxCDF	0.225 pg/L	0.225U pg/L
EB-SA6-SB-072711(RES)	1,2,3,6,7,8-HxCDF	0.334 pg/L	0.334U pg/L
EB-SA6-SB-072711(RES)	1,2,3,7,8,9-HxCDD	0.679 pg/L	0.679U pg/L
EB-SA6-SB-072711(RES)	1,2,3,7,8,9-HxCDF	0.463 pg/L	0.463U pg/L
EB-SA6-SB-072711(RES)	2,3,4,7,8-PECDF	0.611 pg/L	0.611U pg/L
EB-SA6-SB-072711(RES)	OCDD	5.10 pg/L	5.10U pg/L
EB-SA6-SB-072711(RES)	OCDF	0.922 pg/L	0.922U pg/L
EB-SA6-SS-072611(RES)	1,2,3,4,6,7,8-HPCDD	3.71 pg/L	3.71U pg/L
EB-SA6-SS-072611(RES)	1,2,3,4,6,7,8-HPCDF	1.69 pg/L	1.69U pg/L
EB-SA6-SS-072611(RES)	1,2,3,4,7,8,9-HPCDF	0.449 pg/L	0.449U pg/L
EB-SA6-SS-072611(RES)	1,2,3,6,7,8-HxCDD	0.484 pg/L	0.484U pg/L
EB-SA6-SS-072611(RES)	1,2,3,6,7,8-HxCDF	0.392 pg/L	0.392U pg/L
EB-SA6-SS-072611(RES)	1,2,3,7,8,9-HxCDD	0.576 pg/L	0.576U pg/L
EB-SA6-SS-072611(RES)	1,2,3,7,8,9-HxCDF	1.09 pg/L	1.09U pg/L
EB-SA6-SS-072611(RES)	2,3,4,6,7,8-HxCDF	0.368 pg/L	0.368U pg/L
EB-SA6-SS-072611(RES)	2,3,4,7,8-PECDF	1.95 pg/L	1.95U pg/L
EB-SA6-SS-072611(RES)	OCDD	7.99 pg/L	7.99U pg/L
EB-SA6-SS-072611(RES)	OCDF	1.26 pg/L	1.26U pg/L

# Method Blank Outlier Report

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2220B371906	8/11/2011 7:06:00 PM	1,2,3,4,6,7,8-HPCDD 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	0.375 ng/Kg 0.0662 ng/Kg 0.0516 ng/Kg 0.0259 ng/Kg 0.0276 ng/Kg 0.0288 ng/Kg 0.0193 ng/Kg 0.0352 ng/Kg 0.0495 ng/Kg 0.0249 ng/Kg 0.0262 ng/Kg 0.0255 ng/Kg 0.0487 ng/Kg 0.0152 ng/Kg 0.0165 ng/Kg 1.08 ng/Kg 0.166 ng/Kg	DUP08-SA6-QC-072611 DUP09-SA6-QC-072711 SL-009-SA6-SS-0.0-0.5 SL-017-SA6-SS-0.0-0.5 SL-028-SA6-SS-0.0-0.5 SL-069-SA6-SB-4.0-5.0 SL-069-SA6-SB-9.0-10.0 SL-076-SA6-SB-2.0-3.0 SL-077-SA6-SB-4.0-5.0 SL-077-SA6-SB-9.0-10.0 SL-080-SA6-SB-3.5-4.5 SL-089-SA6-SB-4.0-5.0 SL-089-SA6-SB-9.0-10.0 SL-117-SA6-SB-2.0-3.0 SL-179-SA5DN-SB-4.0-5.0 SL-179-SA5DN-SB-9.0-10.0 SL-311-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP08-SA6-QC-072611(RES)	2,3,7,8-TCDD	0.0680 ng/Kg	0.0680U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0266 ng/Kg	0.0266U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.104 ng/Kg	0.104U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.120 ng/Kg	0.120U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.107 ng/Kg	0.107U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0782 ng/Kg	0.0782U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0526 ng/Kg	0.0526U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0733 ng/Kg	0.0733U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0117 ng/Kg	0.0117U ng/Kg
SL-069-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	1.37 ng/Kg	1.37U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0618 ng/Kg	0.0618U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0355 ng/Kg	0.0355U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0808 ng/Kg	0.0808U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0515 ng/Kg	0.0515U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.143 ng/Kg	0.143U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.164 ng/Kg	0.164U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0593 ng/Kg	0.0593U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-069-SA6-SB-9.0-10.0(RES)	OCDF	0.396 ng/Kg	0.396U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.473 ng/Kg	0.473U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0433 ng/Kg	0.0433U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0620 ng/Kg	0.0620U ng/Kg

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: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0199 ng/Kg	0.0199U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDF	0.0227 ng/Kg	0.0227U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HxCDD	0.0393 ng/Kg	0.0393U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HxCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HxCDD	0.0689 ng/Kg	0.0689U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0310 ng/Kg	0.0310U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HxCDF	0.0152 ng/Kg	0.0152U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0478 ng/Kg	0.0478U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0638 ng/Kg	0.0638U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0129 ng/Kg	0.0129U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	OCDD	0.974 ng/Kg	0.974U ng/Kg
SL-076-SA6-SB-2.0-3.0(RES)	OCDF	0.135 ng/Kg	0.135U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.102 ng/Kg	0.102U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0880 ng/Kg	0.0880U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0581 ng/Kg	0.0581U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0208 ng/Kg	0.0208U ng/Kg
SL-077-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-077-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0576 ng/Kg	0.0576U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPcDD	0.435 ng/Kg	0.435U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPcDF	0.0648 ng/Kg	0.0648U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPcDF	0.0331 ng/Kg	0.0331U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0177 ng/Kg	0.0177U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HxCDD	0.0438 ng/Kg	0.0438U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HxCDF	0.0325 ng/Kg	0.0325U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HxCDD	0.0446 ng/Kg	0.0446U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HxCDF	0.0502 ng/Kg	0.0502U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0156 ng/Kg	0.0156U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0287 ng/Kg	0.0287U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	2,3,4,6,7,8-HxCDF	0.0566 ng/Kg	0.0566U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	OCDD	1.08 ng/Kg	1.08U ng/Kg
SL-080-SA6-SB-3.5-4.5(RES)	OCDF	0.172 ng/Kg	0.172U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPcDF	0.189 ng/Kg	0.189U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0727 ng/Kg	0.0727U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.176 ng/Kg	0.176U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0618 ng/Kg	0.0618U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0484 ng/Kg	0.0484U ng/Kg
SL-089-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0209 ng/Kg	0.0209U ng/Kg

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

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ADR version 1.4.0.111

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-089-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-089-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-089-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0567 ng/Kg	0.0567U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.484 ng/Kg	0.484U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.136 ng/Kg	0.136U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HPCDF	0.0624 ng/Kg	0.0624U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0963 ng/Kg	0.0963U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HxCDD	0.0527 ng/Kg	0.0527U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0715 ng/Kg	0.0715U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HxCDD	0.0756 ng/Kg	0.0756U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0586 ng/Kg	0.0586U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0959 ng/Kg	0.0959U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.102 ng/Kg	0.102U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.131 ng/Kg	0.131U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0404 ng/Kg	0.0404U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	OCDD	2.07 ng/Kg	2.07U ng/Kg
SL-117-SA6-SB-2.0-3.0(RES)	OCDF	0.349 ng/Kg	0.349U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0800 ng/Kg	0.0800U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0747 ng/Kg	0.0747U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0642 ng/Kg	0.0642U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.145 ng/Kg	0.145U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0285 ng/Kg	0.0285U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0536 ng/Kg	0.0536U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0467 ng/Kg	0.0467U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0903 ng/Kg	0.0903U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0887 ng/Kg	0.0887U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0116 ng/Kg	0.0116U ng/Kg
SL-179-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0278 ng/Kg	0.0278U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	OCDD	213	-17	40.00-135.00	22 (20.00)	OCDD	No Qual, >4x
SL-009-SA6-SS-0.0-0.5MS SL-009-SA6-SS-0.0-0.5MSD (SL-009-SA6-SS-0.0-0.5)	OCDF	180	-	40.00-135.00	36 (20.00)	OCDF	J(all detects)

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
MOISTURE	2.7	2.7	0		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA6-SS-0.0-0.5	DUP09-SA6-QC-072711			
1,2,3,4,6,7,8-HPCDD	162	174	7	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	30.9	30.8	0	50.00	
1,2,3,4,7,8,9-HPCDF	2.83	2.92	3	50.00	
1,2,3,4,7,8-HxCDD	1.58	1.50	5	50.00	
1,2,3,4,7,8-HxCDF	6.02	6.83	13	50.00	
1,2,3,6,7,8-HxCDD	6.58	6.42	2	50.00	
1,2,3,6,7,8-HxCDF	3.33	2.79	18	50.00	
1,2,3,7,8,9-HxCDD	3.42	3.63	6	50.00	
1,2,3,7,8,9-HxCDF	0.876	0.819	7	50.00	
1,2,3,7,8-PECDD	1.32	1.24	6	50.00	
2,3,4,6,7,8-HxCDF	3.16	2.84	11	50.00	
2,3,4,7,8-PECDF	5.95	5.96	0	50.00	
2,3,7,8-TCDF	4.53	4.11	10	50.00	
OCDD	1920	1790	7	50.00	
OCDF	80.5	86.7	7	50.00	
1,2,3,7,8-PECDF	10.3	1.90	138	50.00	J(all detects)
2,3,7,8-TCDD	6.67	1.32	134	50.00	

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: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-072711	1,2,3,4,6,7,8-HPCDD	JB	2.95	9.80	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.567	9.80	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.369	9.80	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.225	9.80	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.334	9.80	PQL	pg/L	
	1,2,3,7,8,9-HxCDD	JBQ	0.679	9.80	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.463	9.80	PQL	pg/L	
	1,2,3,7,8-PECDF	JQ	0.377	9.80	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.611	9.80	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.571	1.96	PQL	pg/L	
	OCDD	JBQ	5.10	19.6	PQL	pg/L	
	OCDF	JB	0.922	19.6	PQL	pg/L	
EB-SA6-SS-072611	1,2,3,4,6,7,8-HPCDD	JBQ	3.71	9.94	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.69	9.94	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.449	9.94	PQL	pg/L	
	1,2,3,6,7,8-HxCDD	JB	0.484	9.94	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.392	9.94	PQL	pg/L	
	1,2,3,7,8,9-HxCDD	JBQ	0.576	9.94	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	1.09	9.94	PQL	pg/L	
	1,2,3,7,8-PECDF	JQ	1.65	9.94	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.368	9.94	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	1.95	9.94	PQL	pg/L	
	OCDD	JB	7.99	19.9	PQL	pg/L	
	OCDF	JBQ	1.26	19.9	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP08-SA6-QC-072611	1,2,3,4,7,8,9-HPCDF	JB	1.49	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.737	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.66	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.69	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.822	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.363	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.80	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0680	1.02	PQL	ng/Kg	
DUP09-SA6-QC-072711	1,2,3,4,7,8,9-HPCDF	JB	2.92	4.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.50	4.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	2.79	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.63	4.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.819	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.24	4.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.90	4.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.84	4.93	PQL	ng/Kg	
SL-009-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.83	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.58	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.33	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.42	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.876	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.32	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	3.16	5.08	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-017-SA6-SS-0.0-0.5	1,2,3,4,7,8-HxCDD	JB	4.75	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HxCDF	JB	4.18	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	1.17	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	2.18	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.36	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.326	1.00	PQL	ng/Kg	
SL-028-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.52	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.77	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.81	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.964	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.49	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	4.02	5.07	PQL	ng/Kg	
SL-069-SA6-SB-4.0-5.0	2,3,7,8-TCDD	JB	0.302	1.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.401	5.22	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.124	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0266	5.22	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.104	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.120	5.22	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0597	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.107	5.22	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.0782	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0351	5.22	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0526	5.22	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0733	5.22	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.106	5.22	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0117	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0257	1.04	PQL	ng/Kg	
	OCDF	JB	0.991	10.4	PQL	ng/Kg	
SL-069-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.37	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.150	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0618	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0355	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.358	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0808	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0515	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.143	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.164	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0451	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.140	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0593	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.261	5.48	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0825	1.10	PQL	ng/Kg	
	OCDD	JB	10.5	11.0	PQL	ng/Kg	
	OCDF	JB	0.396	11.0	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-076-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.473	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0433	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0620	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0199	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0227	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0393	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0311	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0689	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0310	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0268	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0152	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0478	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0638	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0129	1.08	PQL	ng/Kg	
	OCDD	JB	0.974	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.135	10.8	PQL	ng/Kg	
SL-077-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.83	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.326	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.102	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.174	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.518	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.125	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.220	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0880	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0581	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.655	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.204	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.282	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0208	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0649	1.08	PQL	ng/Kg	
	OCDF	JB	5.93	10.8	PQL	ng/Kg	
SL-077-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	1.48	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.238	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.19	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.931	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.944	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.421	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.806	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.231	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.926	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.13	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.24	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0576	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.481	1.15	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-080-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.435	5.19	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0648	5.19	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0331	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0177	5.19	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0497	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0438	5.19	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0325	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0446	5.19	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0502	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0156	5.19	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0287	5.19	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0566	5.19	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0625	5.19	PQL	ng/Kg	
	OCDD	JB	1.08	10.4	PQL	ng/Kg	
	OCDF	JB	0.172	10.4	PQL	ng/Kg	
SL-089-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.27	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.189	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0727	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.212	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.370	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.119	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.176	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0618	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0484	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.497	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.151	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.429	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0209	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.205	1.08	PQL	ng/Kg	
	OCDF	JB	2.80	10.8	PQL	ng/Kg	
SL-089-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	4.44	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.473	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.346	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.396	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.26	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.216	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.570	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.120	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.385	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.111	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.323	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.357	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0567	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.204	1.06	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX120

Laboratory: LL

EDD Filename: DX120\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-117-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.484	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.136	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0624	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0452	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0963	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0527	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0715	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0756	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0586	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0959	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.102	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0610	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.131	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0404	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0225	1.03	PQL	ng/Kg	
	OCDD	JB	2.07	10.3	PQL	ng/Kg	
	OCDF	JB	0.349	10.3	PQL	ng/Kg	
SL-179-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	2.33	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.90	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.982	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.11	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.11	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.328	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.713	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.638	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.80	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.626	5.16	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0859	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.126	1.03	PQL	ng/Kg	
SL-179-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.852	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.111	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0800	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0747	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.311	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0642	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.145	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0285	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0536	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0467	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0903	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0887	5.52	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0116	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0278	1.10	PQL	ng/Kg	
	OCDF	JB	1.98	11.0	PQL	ng/Kg	
SL-311-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	3.49	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.63	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.48	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.06	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.151	1.01	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX121**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Jul-2011	SL-068-SA6-SB-4.0-5.0	6359587	N	METHOD	1613B	III
28-Jul-2011	SL-068-SA6-SB-19.0-20.0	6359588	N	METHOD	1613B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0	6359582	N	METHOD	1613B	III
28-Jul-2011	SL-183-SA5DN-SB-4.0-5.0MS	6359583	MS	METHOD	1613B	III
28-Jul-2011	DUP21-SA5DN-QC-072811	6359586	FD	METHOD	1613B	III
28-Jul-2011	SL-070-SA6-SB-4.0-5.0	6359589	N	METHOD	1613B	III
28-Jul-2011	SL-183-SA5DN-SB-9.0-10.0	6359585	N	METHOD	1613B	III
28-Jul-2011	SL-090-SA6-SB-3.0-4.0	6359591	N	METHOD	1613B	III
28-Jul-2011	SL-070-SA6-SB-19.0-20.0	6359590	N	METHOD	1613B	III
28-Jul-2011	SL-172-SA5DN-SB-4.0-5.0	6359580	N	METHOD	1613B	III
28-Jul-2011	SL-172-SA5DN-SB-9.0-10.0	6359581	N	METHOD	1613B	III
29-Jul-2011	SL-180-SA5DN-SB-4.0-5.0	6360515	N	METHOD	1613B	III
29-Jul-2011	SL-180-SA5DN-SB-9.0-10.0	6360516	N	METHOD	1613B	III
29-Jul-2011	SL-123-SA6-SB-4.0-5.0	6360520	N	METHOD	1613B	III
29-Jul-2011	SL-123-SA6-SB-7.0-8.0	6360521	N	METHOD	1613B	III
29-Jul-2011	SL-122-SA6-SB-0.0-0.5	6360519	N	METHOD	1613B	III
29-Jul-2011	SL-174-SA5DN-SB-4.0-5.0	6360517	N	METHOD	1613B	III
29-Jul-2011	SL-174-SA5DN-SB-9.0-10.0	6360518	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP21-SA5DN-QC-072811

Collected: 7/28/2011 10:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.12	JB	0.0169	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.177	JB	0.00765	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0442	JB	0.0185	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0398	JQ	0.0134	MDL	5.42	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDF	0.0536	JB	0.0112	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0870	JBQ	0.0137	MDL	5.42	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDF	0.0378	JBQ	0.00831	MDL	5.42	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.0919	JB	0.0132	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0923	JBQ	0.0133	MDL	5.42	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0105	U	0.0105	MDL	5.42	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0467	JBQ	0.00721	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0484	JB	0.00931	MDL	5.42	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0711	JBQ	0.00798	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0235	JQ	0.0121	MDL	1.08	PQL	ng/Kg	J	Z, FD
OCDD	8.41	JB	0.0130	MDL	10.8	PQL	ng/Kg	J	Z, FD
OCDF	0.432	JB	0.0222	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-068-SA6-SB-19.0-20.0

Collected: 7/28/2011 7:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.940	JB	0.0313	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.621	J	0.0322	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.666	JB	0.0266	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.02	JB	0.0330	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.502	JB	0.0218	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.767	JB	0.0318	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.263	JB	0.0224	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.321	JB	0.0236	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.513	JB	0.0172	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.635	JB	0.0224	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.423	JB	0.0207	MDL	5.63	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.148	J	0.0131	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.338	J	0.0274	MDL	1.13	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-068-SA6-SB-4.0-5.0

Collected: 7/28/2011 7:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.35	JB	0.0122	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.227	JB	0.0185	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.142	J	0.0261	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.257	JB	0.0224	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.453	JB	0.0255	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.158	JB	0.0188	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.203	JB	0.0252	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0896	JB	0.0197	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.146	JB	0.0145	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.204	JB	0.0161	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.188	JB	0.0190	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.183	JBQ	0.0163	MDL	5.34	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0776	J	0.0118	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0796	JQ	0.0204	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	2.96	JB	0.0182	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-070-SA6-SB-19.0-20.0

Collected: 7/28/2011 11:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.94	JB	0.0292	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.557	JB	0.0399	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.343	J	0.0361	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.408	JB	0.0251	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.43	JB	0.0373	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.233	JB	0.0227	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.679	JB	0.0349	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.103	JB	0.0274	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.182	JB	0.0276	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.705	JB	0.0224	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.354	JB	0.0239	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.203	JB	0.0252	MDL	5.93	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0859	JQ	0.0136	MDL	1.19	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.270	JQ	0.0339	MDL	1.19	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-070-SA6-SB-4.0-5.0

Collected: 7/28/2011 10:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.696	JB	0.0111	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.163	JB	0.0251	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.121	J	0.0180	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.224	JB	0.0213	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.234	JB	0.0181	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.169	JB	0.0150	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.177	JB	0.0177	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.149	JB	0.0185	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.249	JBQ	0.0136	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.361	JB	0.00973	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.149	JB	0.0161	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.258	JB	0.0120	MDL	5.42	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0846	J	0.0120	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.110	J	0.0180	MDL	1.08	PQL	ng/Kg	J	Z
OCDF	1.73	JB	0.0206	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-090-SA6-SB-3.0-4.0

Collected: 7/28/2011 11:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.363	JB	0.0122	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0582	JBQ	0.00587	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0362	JBQ	0.0188	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0109	JQ	0.00842	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0347	JB	0.00676	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0293	JBQ	0.00875	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0157	JBQ	0.00454	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0310	JB	0.00864	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0423	JBQ	0.00853	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0172	JBQ	0.00975	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0243	JBQ	0.00698	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0215	JB	0.00554	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0374	JBQ	0.00864	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0222	J	0.0112	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	1.12	JB	0.0106	MDL	10.8	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-090-SA6-SB-3.0-4.0

**Collected:** 7/28/2011 11:20:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.243	JBQ	0.0279	MDL	10.8	PQL	ng/Kg	U	B

**Sample ID:** SL-122-SA6-SB-0.0-0.5

**Collected:** 7/29/2011 2:30:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.57	JB	0.0248	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.234	J	0.0232	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	4.33	JB	0.0402	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.650	JB	0.0239	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.48	JB	0.0335	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.403	JB	0.0214	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.838	JB	0.0420	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.188	JB	0.0252	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.37	JB	0.0476	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.38	JB	0.0378	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.60	JB	0.0545	MDL	4.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0680	J	0.0112	MDL	0.983	PQL	ng/Kg	J	Z

**Sample ID:** SL-123-SA6-SB-4.0-5.0

**Collected:** 7/29/2011 9:40:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.86	JB	0.0388	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	3.30	J	0.0377	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.22	JB	0.0403	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.30	JB	0.0336	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.31	JB	0.0360	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.521	JB	0.0384	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.653	JB	0.0350	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.459	JB	0.0253	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.77	JB	0.0357	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.487	JB	0.0278	MDL	5.31	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.323	J	0.0128	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.277	J	0.0607	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	6810	EB	0.0556	MDL	10.6	PQL	ng/Kg	J	*XI

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-123-SA6-SB-7.0-8.0

Collected: 7/29/2011 9:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.36	JB	0.0323	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.55	J	0.0336	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	2.09	JB	0.0388	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	1.13	JB	0.0362	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.68	JB	0.0341	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.541	JB	0.0358	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.470	JB	0.0372	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.748	JB	0.0295	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.54	JB	0.0326	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.29	JB	0.0289	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.167	J	0.0124	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	1.02	J	0.0487	MDL	1.09	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-4.0-5.0

Collected: 7/28/2011 12:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.756	JB	0.0116	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0873	JBQ	0.0243	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.158	J	0.0402	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.0874	JB	0.0265	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.413	JB	0.0420	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0721	JBQ	0.0223	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.467	JB	0.0386	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.320	JB	0.0311	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.119	JB	0.0203	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.190	JB	0.0163	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0825	JB	0.0255	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.112	JBQ	0.0195	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0186	JQ	0.0165	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.88	JB	0.0251	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-172-SA5DN-SB-9.0-10.0

Collected: 7/28/2011 12:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.67	JB	0.0270	MDL	5.85	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-172-SA5DN-SB-9.0-10.0

Collected: 7/28/2011 12:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.732	JB	0.00993	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0718	JBQ	0.0202	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0893	J	0.0277	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0767	JBQ	0.0173	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.224	JB	0.0271	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0417	JB	0.0142	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.201	JB	0.0264	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0562	JB	0.0228	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0700	JBQ	0.0175	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0625	JBQ	0.0123	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0506	JB	0.0158	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0553	JBQ	0.0139	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0220	JQ	0.0169	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	1.98	JB	0.0201	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-174-SA5DN-SB-4.0-5.0

Collected: 7/29/2011 2:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.57	JB	0.0246	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.873	JB	0.00804	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.114	JB	0.0212	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0561	J	0.0217	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0892	JBQ	0.0177	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.230	JB	0.0219	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0649	JBQ	0.0132	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.127	JB	0.0204	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0448	JB	0.0192	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0511	JBQ	0.0162	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0582	JB	0.00851	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0793	JBQ	0.0159	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0605	JBQ	0.0112	MDL	5.65	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0361	J	0.0129	MDL	1.13	PQL	ng/Kg	J	Z
OCDF	1.93	JB	0.0216	MDL	11.3	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-174-SA5DN-SB-9.0-10.0

Collected: 7/29/2011 2:51:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.989	JB	0.00575	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.142	JB	0.0147	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0715	JQ	0.0228	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.101	JB	0.0158	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.296	JB	0.0231	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0851	JB	0.0125	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.144	JB	0.0215	MDL	5.68	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0490	JB	0.0180	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0634	JB	0.0145	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0845	JBQ	0.00875	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.103	JB	0.0145	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0924	JB	0.00990	MDL	5.68	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0512	JQ	0.0106	MDL	1.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0336	JQ	0.0139	MDL	1.14	PQL	ng/Kg	J	Z
OCDF	2.06	JB	0.0168	MDL	11.4	PQL	ng/Kg	J	Z

Sample ID: SL-180-SA5DN-SB-4.0-5.0

Collected: 7/29/2011 9:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.728	JB	0.0128	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.109	JB	0.00627	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0568	JBQ	0.0187	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0116	JQ	0.0107	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0267	JB	0.00810	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0392	JBQ	0.0109	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0165	JBQ	0.00570	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0363	JBQ	0.0104	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0335	JBQ	0.0104	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0129	JB	0.0107	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0282	JBQ	0.00650	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0205	JBQ	0.00673	MDL	5.59	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0404	JB	0.00775	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0169	JQ	0.0111	MDL	1.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0126	J	0.0121	MDL	1.12	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

10/27/2011 11:47:00 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-180-SA5DN-SB-4.0-5.0

**Collected:** 7/29/2011 9:10:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	4.51	JB	0.0122	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.271	JBQ	0.0273	MDL	11.2	PQL	ng/Kg	U	B

**Sample ID:** SL-180-SA5DN-SB-9.0-10.0

**Collected:** 7/29/2011 9:12:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.57	JB	0.0152	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.293	JB	0.00563	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0751	JB	0.0171	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0402	J	0.0165	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0292	JB	0.0103	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.124	JB	0.0168	MDL	5.87	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0321	JB	0.00766	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0977	JB	0.0162	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0311	JBQ	0.0134	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0413	JBQ	0.0109	MDL	5.87	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0257	JBQ	0.00599	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0407	JB	0.00910	MDL	5.87	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0428	JBQ	0.00778	MDL	5.87	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0157	J	0.0109	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0171	JQ	0.0125	MDL	1.17	PQL	ng/Kg	J	Z
OCDF	0.623	JB	0.0284	MDL	11.7	PQL	ng/Kg	U	B

**Sample ID:** SL-183-SA5DN-SB-4.0-5.0

**Collected:** 7/28/2011 10:11:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.800	JB	0.0184	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.113	JBQ	0.00617	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0361	JBQ	0.0175	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0161	J	0.0130	MDL	5.45	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0386	JB	0.00999	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0411	JBQ	0.0135	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDF	0.0120	JBQ	0.00752	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.0713	JBQ	0.0132	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0527	JBQ	0.0112	MDL	5.45	PQL	ng/Kg	UJ	B, FD

\* denotes a non-reportable result

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

10/27/2011 11:47:00 AM

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## Data Qualifier Summary

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-183-SA5DN-SB-4.0-5.0

**Collected:** 7/28/2011 10:11:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0194	JBQ	0.0145	MDL	5.45	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0458	JBQ	0.00808	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0277	JBQ	0.00853	MDL	5.45	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0562	JBQ	0.00965	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0159	U	0.0159	MDL	1.09	PQL	ng/Kg	UJ	FD
OCDD	4.73	JB	0.0176	MDL	10.9	PQL	ng/Kg	J	Z, FD
OCDF	0.309	JB	0.0248	MDL	10.9	PQL	ng/Kg	U	B

**Sample ID:** SL-183-SA5DN-SB-9.0-10.0

**Collected:** 7/28/2011 10:30:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.554	JB	0.0177	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.109	JB	0.00803	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0807	JB	0.0157	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0677	J	0.0143	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0924	JBQ	0.0126	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0725	JBQ	0.0147	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0735	JBQ	0.00894	MDL	5.70	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.0723	JBQ	0.0128	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0947	JB	0.0119	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0518	JBQ	0.0127	MDL	5.70	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0652	JBQ	0.00654	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0702	JB	0.00849	MDL	5.70	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0840	JB	0.00849	MDL	5.70	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0112	JQ	0.0111	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	2.78	JB	0.0173	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.310	JB	0.0237	MDL	11.4	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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: DX121

Laboratory: LL

EDD Filename: DX121\_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
*XI	Compound Quantitation and CRQL
A	ICP Serial Dilution
B	Calibration Blank Contamination
B	Method Blank Contamination
C	Continuing Calibration Verification Correlation Coefficient
C	Continuing Calibration Verification Percent Difference Lower Estimation
C	Continuing Calibration Verification Percent Difference Lower Rejection
C	Continuing Calibration Verification Percent Difference Upper Estimation
C	Continuing Calibration Verification Percent Difference Upper Rejection
C	Initial Calibration Correlation Coefficient
C	Initial Calibration Percent Relative Standard Deviation
C	Initial Calibration Verification Correlation Coefficient
C	Initial Calibration Verification Percent Difference Lower Estimation
C	Initial Calibration Verification Percent Difference Lower Rejection
C	Initial Calibration Verification Percent Difference Upper Estimation
C	Initial Calibration Verification Percent Difference Upper Rejection
E	Laboratory Control Precision
E	Laboratory Duplicate Precision
E	Matrix Spike Precision

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* 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**

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

# Quality Control Outlier Reports

DX121

# Method Blank Outlier Report

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2230B371804	8/15/2011 6:04:00 PM	1,2,3,4,6,7,8-HPCDD 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	0.353 ng/Kg 0.0526 ng/Kg 0.0314 ng/Kg 0.0198 ng/Kg 0.0237 ng/Kg 0.0114 ng/Kg 0.0270 ng/Kg 0.0321 ng/Kg 0.0239 ng/Kg 0.0220 ng/Kg 0.0231 ng/Kg 0.0422 ng/Kg 0.751 ng/Kg 0.166 ng/Kg	DUP21-SA5DN-QC-072811 SL-068-SA6-SB-19.0-20.0 SL-068-SA6-SB-4.0-5.0 SL-070-SA6-SB-19.0-20.0 SL-070-SA6-SB-4.0-5.0 SL-090-SA6-SB-3.0-4.0 SL-122-SA6-SB-0.0-0.5 SL-123-SA6-SB-4.0-5.0 SL-123-SA6-SB-7.0-8.0 SL-172-SA5DN-SB-4.0-5.0 SL-172-SA5DN-SB-9.0-10.0 SL-174-SA5DN-SB-4.0-5.0 SL-174-SA5DN-SB-9.0-10.0 SL-180-SA5DN-SB-4.0-5.0 SL-180-SA5DN-SB-9.0-10.0 SL-183-SA5DN-SB-4.0-5.0 SL-183-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,6,7,8-HPCDD	1.12 ng/Kg	1.12U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,6,7,8-HPCDF	0.177 ng/Kg	0.177U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,7,8,9-HPCDF	0.0442 ng/Kg	0.0442U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,4,7,8-HXCDF	0.0536 ng/Kg	0.0536U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,6,7,8-HXCDD	0.0870 ng/Kg	0.0870U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,6,7,8-HXCDF	0.0378 ng/Kg	0.0378U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,7,8,9-HXCDD	0.0919 ng/Kg	0.0919U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,7,8,9-HXCDF	0.0923 ng/Kg	0.0923U ng/Kg
DUP21-SA5DN-QC-072811(RES)	1,2,3,7,8-PECDF	0.0467 ng/Kg	0.0467U ng/Kg
DUP21-SA5DN-QC-072811(RES)	2,3,4,6,7,8-HXCDF	0.0484 ng/Kg	0.0484U ng/Kg
DUP21-SA5DN-QC-072811(RES)	2,3,4,7,8-PECDF	0.0711 ng/Kg	0.0711U ng/Kg
DUP21-SA5DN-QC-072811(RES)	OCDF	0.432 ng/Kg	0.432U ng/Kg
SL-068-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0896 ng/Kg	0.0896U ng/Kg
SL-068-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.183 ng/Kg	0.183U ng/Kg
SL-070-SA6-SB-19.0-20.0(RES)	1,2,3,7,8,9-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-070-SA6-SB-19.0-20.0(RES)	2,3,4,7,8-PECDF	0.203 ng/Kg	0.203U ng/Kg
SL-070-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.149 ng/Kg	0.149U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.363 ng/Kg	0.363U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0362 ng/Kg	0.0362U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0347 ng/Kg	0.0347U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.0293 ng/Kg	0.0293U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0157 ng/Kg	0.0157U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0310 ng/Kg	0.0310U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0172 ng/Kg	0.0172U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0215 ng/Kg	0.0215U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0374 ng/Kg	0.0374U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-090-SA6-SB-3.0-4.0(RES)	OCDD	1.12 ng/Kg	1.12U ng/Kg
SL-090-SA6-SB-3.0-4.0(RES)	OCDF	0.243 ng/Kg	0.243U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0873 ng/Kg	0.0873U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0874 ng/Kg	0.0874U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.119 ng/Kg	0.119U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0825 ng/Kg	0.0825U ng/Kg
SL-172-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0718 ng/Kg	0.0718U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0767 ng/Kg	0.0767U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0562 ng/Kg	0.0562U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0700 ng/Kg	0.0700U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0506 ng/Kg	0.0506U ng/Kg
SL-172-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0553 ng/Kg	0.0553U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.114 ng/Kg	0.114U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0892 ng/Kg	0.0892U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.127 ng/Kg	0.127U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0448 ng/Kg	0.0448U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0511 ng/Kg	0.0511U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0793 ng/Kg	0.0793U ng/Kg
SL-174-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.142 ng/Kg	0.142U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0490 ng/Kg	0.0490U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0634 ng/Kg	0.0634U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0845 ng/Kg	0.0845U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.103 ng/Kg	0.103U ng/Kg
SL-174-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.728 ng/Kg	0.728U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.109 ng/Kg	0.109U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0568 ng/Kg	0.0568U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0392 ng/Kg	0.0392U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0165 ng/Kg	0.0165U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0363 ng/Kg	0.0363U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0335 ng/Kg	0.0335U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0129 ng/Kg	0.0129U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0282 ng/Kg	0.0282U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0205 ng/Kg	0.0205U ng/Kg

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: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-180-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-180-SA5DN-SB-4.0-5.0(RES)	OCDF	0.271 ng/Kg	0.271U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0751 ng/Kg	0.0751U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0321 ng/Kg	0.0321U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0977 ng/Kg	0.0977U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0413 ng/Kg	0.0413U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0407 ng/Kg	0.0407U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0428 ng/Kg	0.0428U ng/Kg
SL-180-SA5DN-SB-9.0-10.0(RES)	OCDF	0.623 ng/Kg	0.623U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.800 ng/Kg	0.800U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.113 ng/Kg	0.113U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0411 ng/Kg	0.0411U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0120 ng/Kg	0.0120U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0713 ng/Kg	0.0713U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0527 ng/Kg	0.0527U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0194 ng/Kg	0.0194U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0458 ng/Kg	0.0458U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0277 ng/Kg	0.0277U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0562 ng/Kg	0.0562U ng/Kg
SL-183-SA5DN-SB-4.0-5.0(RES)	OCDF	0.309 ng/Kg	0.309U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.554 ng/Kg	0.554U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.109 ng/Kg	0.109U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0807 ng/Kg	0.0807U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0725 ng/Kg	0.0725U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0947 ng/Kg	0.0947U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0518 ng/Kg	0.0518U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0652 ng/Kg	0.0652U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0702 ng/Kg	0.0702U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0840 ng/Kg	0.0840U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	OCDD	2.78 ng/Kg	2.78U ng/Kg
SL-183-SA5DN-SB-9.0-10.0(RES)	OCDF	0.310 ng/Kg	0.310U ng/Kg

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: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

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

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-183-SA5DN-SB-4.0-5.0	DUP21-SA5DN-QC-072811			
1,2,3,4,6,7,8-HPCDD	0.800	1.12	33	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.113	0.177	44	50.00	
1,2,3,4,7,8,9-HPCDF	0.0361	0.0442	20	50.00	
1,2,3,4,7,8-HXCDF	0.0386	0.0536	33	50.00	
1,2,3,7,8,9-HXCDD	0.0713	0.0919	25	50.00	
1,2,3,7,8-PECDF	0.0458	0.0467	2	50.00	
2,3,4,7,8-PECDF	0.0562	0.0711	23	50.00	
OCDF	0.309	0.432	33	50.00	
1,2,3,4,7,8-HxCDD	0.0161	0.0398	85	50.00	J(all detects) UJ(all non-detects)
1,2,3,6,7,8-HxCDD	0.0411	0.0870	72	50.00	
1,2,3,6,7,8-HXCDF	0.0120	0.0378	104	50.00	
1,2,3,7,8,9-HXCDF	0.0527	0.0923	55	50.00	
1,2,3,7,8-PECDD	0.0194	5.42 U	200	50.00	
2,3,4,6,7,8-HXCDF	0.0277	0.0484	54	50.00	
2,3,7,8-TCDF	1.09 U	0.0235	200	50.00	
OCDD	4.73	8.41	56	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP21-SA5DN-QC-072811	1,2,3,4,6,7,8-HPCDD	JB	1.12	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.177	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0442	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0398	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0536	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0870	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0378	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0919	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0923	5.42	PQL	ng/Kg	
	1,2,3,7,8-PCDF	JBQ	0.0467	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0484	5.42	PQL	ng/Kg	
	2,3,4,7,8-PCDF	JBQ	0.0711	5.42	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0235	1.08	PQL	ng/Kg	
	OCDD	JB	8.41	10.8	PQL	ng/Kg	
	OCDF	JB	0.432	10.8	PQL	ng/Kg	
SL-068-SA6-SB-19.0-20.0	1,2,3,4,7,8,9-HPCDF	JB	0.940	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.621	5.63	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.666	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.02	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.502	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.767	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.263	5.63	PQL	ng/Kg	
	1,2,3,7,8-PCDD	JB	0.321	5.63	PQL	ng/Kg	
	1,2,3,7,8-PCDF	JB	0.513	5.63	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.635	5.63	PQL	ng/Kg	
	2,3,4,7,8-PCDF	JB	0.423	5.63	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.148	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.338	1.13	PQL	ng/Kg	
SL-068-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.35	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.227	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.142	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.257	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.453	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.158	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.203	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.0896	5.34	PQL	ng/Kg	
	1,2,3,7,8-PCDD	JB	0.146	5.34	PQL	ng/Kg	
	1,2,3,7,8-PCDF	JB	0.204	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.188	5.34	PQL	ng/Kg	
	2,3,4,7,8-PCDF	JBQ	0.183	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0776	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0796	1.07	PQL	ng/Kg	
	OCDF	JB	2.96	10.7	PQL	ng/Kg	
SL-070-SA6-SB-19.0-20.0	1,2,3,4,6,7,8-HPCDF	JB	4.94	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.557	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.343	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.408	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.43	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.233	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.679	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.103	5.93	PQL	ng/Kg	
	1,2,3,7,8-PCDD	JB	0.182	5.93	PQL	ng/Kg	
	1,2,3,7,8-PCDF	JB	0.705	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.354	5.93	PQL	ng/Kg	
	2,3,4,7,8-PCDF	JB	0.203	5.93	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0859	1.19	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.270	1.19	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-070-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.696	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.163	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.121	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.224	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.234	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.169	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.177	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.149	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.249	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.361	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.149	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.258	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0846	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.110	1.08	PQL	ng/Kg	
	OCDF	JB	1.73	10.8	PQL	ng/Kg	
SL-090-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.363	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0582	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0362	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0109	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0347	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0293	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0157	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0310	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0423	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0172	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0243	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0215	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0374	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0222	1.08	PQL	ng/Kg	
	OCDD	JB	1.12	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.243	10.8	PQL	ng/Kg	
SL-122-SA6-SB-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.57	4.91	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.234	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	4.33	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.650	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.48	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.403	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.838	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.188	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.37	4.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.38	4.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.60	4.91	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0680	0.983	PQL	ng/Kg	
SL-123-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	3.86	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	3.30	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.22	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.30	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.31	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.521	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.653	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.459	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.77	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.487	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.323	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.277	1.06	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-123-SA6-SB-7.0-8.0	1,2,3,4,7,8,9-HPCDF	JB	2.36	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.55	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.09	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.13	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	3.68	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.541	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.470	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.748	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.54	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.29	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.167	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	1.02	1.09	PQL	ng/Kg	
SL-172-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.756	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0873	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.158	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0874	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.413	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0721	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.467	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.320	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.119	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0825	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.112	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0186	1.11	PQL	ng/Kg	
	OCDF	JB	1.88	11.1	PQL	ng/Kg	
SL-172-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	5.67	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.732	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0718	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0893	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0767	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.224	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0417	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.201	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0562	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0700	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0625	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0506	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0553	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0220	1.17	PQL	ng/Kg	
	OCDF	JB	1.98	11.7	PQL	ng/Kg	
SL-174-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	5.57	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.873	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.114	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0561	5.65	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0892	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.230	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0649	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.127	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0448	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0511	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0582	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0793	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0605	5.65	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0361	1.13	PQL	ng/Kg	
	OCDF	JB	1.93	11.3	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-174-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.989	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.142	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0715	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.101	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.296	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0851	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.144	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0490	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0634	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0845	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.103	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0924	5.68	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0512	1.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0336	1.14	PQL	ng/Kg	
	OCDF	JB	2.06	11.4	PQL	ng/Kg	
SL-180-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.728	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.109	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0568	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0116	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0267	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0392	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0165	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0363	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0335	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0129	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0282	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0205	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0404	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0169	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0126	1.12	PQL	ng/Kg	
	OCDD	JB	4.51	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.271	11.2	PQL	ng/Kg	
SL-180-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.57	5.87	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.293	5.87	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0751	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0402	5.87	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0292	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.124	5.87	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0321	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0977	5.87	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0311	5.87	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0413	5.87	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0257	5.87	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0407	5.87	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0428	5.87	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0157	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0171	1.17	PQL	ng/Kg	
	OCDF	JB	0.623	11.7	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX121

Laboratory: LL

EDD Filename: DX121\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-183-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.800	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.113	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0361	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0161	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0386	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0411	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0120	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0713	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0527	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0194	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0458	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0277	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0562	5.45	PQL	ng/Kg	
	OCDD	JB	4.73	10.9	PQL	ng/Kg	
	OCDF	JB	0.309	10.9	PQL	ng/Kg	
SL-183-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.554	5.70	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.109	5.70	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0807	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0677	5.70	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0924	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0725	5.70	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0735	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0723	5.70	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.0947	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0518	5.70	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0652	5.70	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0702	5.70	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0840	5.70	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0112	1.14	PQL	ng/Kg	
	OCDD	JB	2.78	11.4	PQL	ng/Kg	
	OCDF	JB	0.310	11.4	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX122**

## **Attachment I**

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



## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Jul-2011	SL-125-SA6-SB-4.0-5.0	6360522	N	METHOD	1613B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MS	6360523	MS	METHOD	1613B	III
29-Jul-2011	SL-125-SA6-SB-4.0-5.0MSD	6360524	MSD	METHOD	1613B	III
29-Jul-2011	DUP10-SA6-QC-072911	6360528	FD	METHOD	1613B	III
29-Jul-2011	SL-125-SA6-SB-20.0-21.0	6360525	N	METHOD	1613B	III
29-Jul-2011	SL-126-SA6-SB-4.0-5.0	6360526	N	METHOD	1613B	III
29-Jul-2011	SL-126-SA6-SB-9.0-10.0	6360527	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP10-SA6-QC-072911

Collected: 7/29/2011 8:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	116	B	0.0969	MDL	5.59	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	8.48	B	0.0393	MDL	5.59	PQL	ng/Kg	J	FD
1,2,3,4,7,8,9-HPCDF	0.882	JB	0.0425	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDD	0.641	JB	0.0488	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.752	JB	0.0409	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HxCDD	2.24	JB	0.0478	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HXCDF	0.412	JB	0.0378	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HxCDD	0.823	JB	0.0465	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HXCDF	0.171	JB	0.0391	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.197	JB	0.0352	MDL	5.59	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	1.13	JB	0.0393	MDL	5.59	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.594	JB	0.0350	MDL	5.59	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.357	JBQ	0.0448	MDL	5.59	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.113	J	0.0174	MDL	1.12	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.754	JB	0.0809	MDL	1.12	PQL	ng/Kg	J	Z, FD
OCDD	1540	B	0.0555	MDL	11.2	PQL	ng/Kg	J	FD
OCDF	23.2	B	0.0350	MDL	11.2	PQL	ng/Kg	J	FD

Sample ID: SL-125-SA6-SB-20.0-21.0

Collected: 7/29/2011 8:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.06	JB	0.0315	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.449	JB	0.0351	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.168	JB	0.0453	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.760	JB	0.0434	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.574	JB	0.0467	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.306	JB	0.0411	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.321	JBQ	0.0440	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.183	JB	0.0421	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JB	0.0245	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.978	JB	0.0428	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.466	JB	0.0395	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.245	JB	0.0405	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.520	JB	0.0979	MDL	1.12	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-125-SA6-SB-20.0-21.0

Collected: 7/29/2011 8:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	5.60	JB	0.0343	MDL	11.2	PQL	ng/Kg	J	Z

Sample ID: SL-125-SA6-SB-4.0-5.0

Collected: 7/29/2011 7:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	12.2	B	0.0324	MDL	5.47	PQL	ng/Kg	J	Q, Q, FD
1,2,3,4,6,7,8-HPCDF	0.791	JB	0.0201	MDL	5.47	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8,9-HPCDF	0.125	JB	0.0222	MDL	5.47	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0819	JBQ	0.0277	MDL	5.47	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDF	0.151	JBQ	0.0240	MDL	5.47	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDD	0.220	JB	0.0277	MDL	5.47	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HxCDF	0.0740	JB	0.0228	MDL	5.47	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.136	JB	0.0249	MDL	5.47	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDF	0.104	JB	0.0197	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0673	JBQ	0.0119	MDL	5.47	PQL	ng/Kg	UJ	Q, B, FD
1,2,3,7,8-PECDF	0.0808	JB	0.0123	MDL	5.47	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HxCDF	0.113	JB	0.0189	MDL	5.47	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.112	JB	0.0118	MDL	5.47	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0169	JQ	0.0103	MDL	1.09	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.0248	JBQ	0.0151	MDL	1.09	PQL	ng/Kg	UJ	Q, B, FD
OCDD	117	B	0.0333	MDL	10.9	PQL	ng/Kg	J	Q, Q, FD
OCDF	2.01	JB	0.0196	MDL	10.9	PQL	ng/Kg	J	Z, FD

Sample ID: SL-126-SA6-SB-4.0-5.0

Collected: 7/29/2011 11:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.361	JB	0.0218	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0826	JBQ	0.0116	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.172	JBQ	0.0178	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0317	JBQ	0.0138	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0611	JBQ	0.0108	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0495	JB	0.0141	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0322	JB	0.00969	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0521	JBQ	0.0141	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0447	JBQ	0.0119	MDL	5.26	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-126-SA6-SB-4.0-5.0

**Collected:** 7/29/2011 11:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0454	JBQ	0.0178	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0585	JB	0.0127	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDD	0.0339	JBQ	0.0100	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0514	JBQ	0.0122	MDL	5.26	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0431	JQ	0.0249	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	0.935	JB	0.0236	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.153	JBQ	0.0275	MDL	10.5	PQL	ng/Kg	U	B

**Sample ID:** SL-126-SA6-SB-9.0-10.0

**Collected:** 7/29/2011 11:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.330	JBQ	0.0219	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0741	JB	0.0108	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0732	JBQ	0.0159	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0976	JBQ	0.0172	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0460	JBQ	0.0120	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0682	JBQ	0.0174	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0311	JBQ	0.0106	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0284	JBQ	0.0148	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0647	JB	0.0118	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0461	JB	0.0220	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0404	JBQ	0.0179	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0366	JB	0.0101	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0627	JBQ	0.0173	MDL	5.46	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0250	JQ	0.0227	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0460	JBQ	0.0244	MDL	1.09	PQL	ng/Kg	U	B
OCDD	0.918	JB	0.0254	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.155	JBQ	0.0288	MDL	10.9	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_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: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

Project Name and Number: 1203-004-009-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

DX122

# Method Blank Outlier Report

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2270B371927	8/17/2011 7:27:00 PM	1,2,3,4,6,7,8-HPCDD 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	0.350 ng/Kg 0.0800 ng/Kg 0.0569 ng/Kg 0.0289 ng/Kg 0.0452 ng/Kg 0.0381 ng/Kg 0.0344 ng/Kg 0.0357 ng/Kg 0.0602 ng/Kg 0.0360 ng/Kg 0.0263 ng/Kg 0.0392 ng/Kg 0.0673 ng/Kg 0.0326 ng/Kg 0.710 ng/Kg 0.140 ng/Kg	DUP10-SA6-QC-072911 SL-125-SA6-SB-20.0-21.0 SL-125-SA6-SB-4.0-5.0 SL-126-SA6-SB-4.0-5.0 SL-126-SA6-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP10-SA6-QC-072911(RES)	1,2,3,7,8,9-HxCDF	0.171 ng/Kg	0.171U ng/Kg
SL-125-SA6-SB-20.0-21.0(RES)	1,2,3,7,8,9-HxCDF	0.183 ng/Kg	0.183U ng/Kg
SL-125-SA6-SB-20.0-21.0(RES)	1,2,3,7,8-PECDD	0.118 ng/Kg	0.118U ng/Kg
SL-125-SA6-SB-20.0-21.0(RES)	2,3,4,7,8-PECDF	0.245 ng/Kg	0.245U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.125 ng/Kg	0.125U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0819 ng/Kg	0.0819U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.151 ng/Kg	0.151U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0740 ng/Kg	0.0740U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.136 ng/Kg	0.136U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.104 ng/Kg	0.104U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0673 ng/Kg	0.0673U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0808 ng/Kg	0.0808U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.113 ng/Kg	0.113U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-125-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0248 ng/Kg	0.0248U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.361 ng/Kg	0.361U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0826 ng/Kg	0.0826U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.172 ng/Kg	0.172U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0317 ng/Kg	0.0317U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0611 ng/Kg	0.0611U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0495 ng/Kg	0.0495U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0521 ng/Kg	0.0521U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0447 ng/Kg	0.0447U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0454 ng/Kg	0.0454U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0585 ng/Kg	0.0585U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0514 ng/Kg	0.0514U ng/Kg
SL-126-SA6-SB-4.0-5.0(RES)	OCDD	0.935 ng/Kg	0.935U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-126-SA6-SB-4.0-5.0(RES)	OCDF	0.153 ng/Kg	0.153U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.330 ng/Kg	0.330U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0741 ng/Kg	0.0741U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0732 ng/Kg	0.0732U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0976 ng/Kg	0.0976U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.0682 ng/Kg	0.0682U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0311 ng/Kg	0.0311U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0284 ng/Kg	0.0284U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0647 ng/Kg	0.0647U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0461 ng/Kg	0.0461U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0366 ng/Kg	0.0366U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0627 ng/Kg	0.0627U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	OCDD	0.918 ng/Kg	0.918U ng/Kg
SL-126-SA6-SB-9.0-10.0(RES)	OCDF	0.155 ng/Kg	0.155U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-125-SA6-SB-4.0-5.0MS	1,2,3,4,6,7,8-HPCDD	151	-	40.00-135.00	45 (20.00)	1,2,3,4,6,7,8-HPCDD	J (all detects)
SL-125-SA6-SB-4.0-5.0MSD	1,2,3,7,8-PECDD	-	-	40.00-135.00	40 (20.00)	1,2,3,7,8-PECDD	
(SL-125-SA6-SB-4.0-5.0)	2,3,7,8-TCDF	-	-	40.00-135.00	22 (20.00)	2,3,7,8-TCDF	
	OCDD	157	-	40.00-135.00	36 (20.00)	OCDD	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP10-SA6-QC-072911	1,2,3,4,7,8,9-HPCDF	JB	0.882	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.641	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.752	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.24	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.412	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.823	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.171	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.197	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.13	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.594	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.357	5.59	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.113	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.754	1.12	PQL	ng/Kg	
SL-125-SA6-SB-20.0-21.0	1,2,3,4,6,7,8-HPCDF	JB	3.06	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.449	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.168	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.760	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.574	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.306	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.321	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.183	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.118	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.978	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.466	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.245	5.60	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.520	1.12	PQL	ng/Kg	
	OCDF	JB	5.60	11.2	PQL	ng/Kg	
SL-125-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.791	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.125	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0819	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.151	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.220	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0740	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.136	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.104	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0673	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0808	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.113	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.112	5.47	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0169	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0248	1.09	PQL	ng/Kg	
	OCDF	JB	2.01	10.9	PQL	ng/Kg	
SL-126-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.361	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0826	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.172	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0317	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0611	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0495	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0322	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0521	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0447	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0454	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0585	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0339	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0514	5.26	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0431	1.05	PQL	ng/Kg	
	OCDD	JB	0.935	10.5	PQL	ng/Kg	
	OCDF	JBQ	0.153	10.5	PQL	ng/Kg	

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# Reporting Limit Outliers

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-126-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.330	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0741	5.46	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0732	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0976	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0460	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0682	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0311	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0284	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.0647	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0461	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0404	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0366	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0627	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0250	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0460	1.09	PQL	ng/Kg	
	OCDD	JB	0.918	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.155	10.9	PQL	ng/Kg	

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX122

Laboratory: LL

EDD Filename: DX122\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

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

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-125-SA6-SB-4.0-5.0	DUP10-SA6-QC-072911			
1,2,3,7,8,9-HXCDF	0.104	0.171	49	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDD	12.2	116	162	50.00	J(all detects)
1,2,3,4,6,7,8-HPCDF	0.791	8.48	166	50.00	
1,2,3,4,7,8,9-HPCDF	0.125	0.882	150	50.00	
1,2,3,4,7,8-HxCDD	0.0819	0.641	155	50.00	
1,2,3,4,7,8-HXCDF	0.151	0.752	133	50.00	
1,2,3,6,7,8-HxCDD	0.220	2.24	164	50.00	
1,2,3,6,7,8-HXCDF	0.0740	0.412	139	50.00	
1,2,3,7,8,9-HxCDD	0.136	0.823	143	50.00	
1,2,3,7,8-PECDD	0.0673	0.197	98	50.00	
1,2,3,7,8-PECDF	0.0808	1.13	173	50.00	
2,3,4,6,7,8-HXCDF	0.113	0.594	136	50.00	
2,3,4,7,8-PECDF	0.112	0.357	104	50.00	
2,3,7,8-TCDD	0.0169	0.113	148	50.00	
2,3,7,8-TCDF	0.0248	0.754	187	50.00	
OCDD	117	1540	172	50.00	
OCDF	2.01	23.2	168	50.00	



**SAMPLE DELIVERY GROUP**

**DX123**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Aug-2011	SL-176-SA5DN-SB-4.0-5.0	6361794	N	METHOD	1613B	III
01-Aug-2011	SL-176-SA5DN-SB-9.0-10.0	6361795	N	METHOD	1613B	III
01-Aug-2011	SL-173-SA5DN-SB-4.0-5.0	6361788	N	METHOD	1613B	III
01-Aug-2011	SL-173-SA5DN-SB-9.0-10.0	6361789	N	METHOD	1613B	III
01-Aug-2011	SL-127-SA6-SB-2.0-3.0	6361796	N	METHOD	1613B	III
01-Aug-2011	SL-170-SA5DN-SB-4.0-5.0	6361786	N	METHOD	1613B	III
01-Aug-2011	SL-170-SA5DN-SB-9.0-10.0	6361787	N	METHOD	1613B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0	6361790	N	METHOD	1613B	III
01-Aug-2011	SL-175-SA5DN-SB-4.0-5.0MS	6361791	MS	METHOD	1613B	III
01-Aug-2011	DUP22-SA5DN-QC-080111	6361797	FD	METHOD	1613B	III
01-Aug-2011	SL-175-SA5DN-SB-9.0-10.0	6361793	N	METHOD	1613B	III
02-Aug-2011	SL-145-SA6-SB-3.5-4.5	6363178	N	METHOD	1613B	III
02-Aug-2011	SL-160-SA5DN-SB-4.0-5.0	6363172	N	METHOD	1613B	III
02-Aug-2011	SL-128-SA6-SB-4.0-5.0	6363176	N	METHOD	1613B	III
02-Aug-2011	SL-128-SA6-SB-7.5-8.5	6363177	N	METHOD	1613B	III
02-Aug-2011	EB-SA6-SB-080211	6363175	EB	METHOD	1613B	III
02-Aug-2011	SL-162-SA5DN-SB-4.0-5.0	6363173	N	METHOD	1613B	III
02-Aug-2011	SL-162-SA5DN-SB-9.0-10.0	6363174	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>AQ</b>

Sample ID: EB-SA6-SB-080211

Collected: 8/2/2011 1:00:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.60	JBQ	0.181	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.333	JB	0.0620	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.121	JBQ	0.0716	MDL	10.4	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.177	JBQ	0.0557	MDL	10.4	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.255	JBQ	0.132	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.189	JBQ	0.118	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.0584	JBQ	0.0577	MDL	10.4	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.117	JBQ	0.0969	MDL	10.4	PQL	pg/L	U	B
2,3,7,8-TCDF	0.136	JQ	0.133	MDL	2.07	PQL	pg/L	J	Z
OCDD	7.82	JB	0.226	MDL	20.7	PQL	pg/L	U	B
OCDF	0.709	JBQ	0.182	MDL	20.7	PQL	pg/L	U	B

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP22-SA5DN-QC-080111

Collected: 8/1/2011 2:52:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.551	JB	0.0496	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.245	JBQ	0.0542	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.285	JB	0.0362	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.59	JB	0.0551	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.239	JB	0.0325	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.609	JB	0.0494	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.156	JBQ	0.0420	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.157	JBQ	0.0416	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.385	JB	0.0199	MDL	5.46	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.323	JB	0.0346	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.142	JB	0.0202	MDL	5.46	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0336	JB	0.0182	MDL	1.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0521	JBQ	0.0294	MDL	1.09	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-127-SA6-SB-2.0-3.0

Collected: 8/1/2011 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.536	JB	0.0313	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.305	JB	0.0503	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	2.45	JB	0.0540	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.00	JB	0.0517	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.618	JB	0.0508	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.515	JB	0.0495	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.245	JB	0.0551	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.257	JB	0.0319	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.38	JB	0.0687	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.629	JB	0.0509	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0984	JB	0.0140	MDL	1.00	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.255	JB	0.129	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-128-SA6-SB-4.0-5.0

Collected: 8/2/2011 12:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.38	JB	0.0411	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.43	JB	0.0151	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.199	JB	0.0267	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0391	JBQ	0.0222	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.847	JB	0.0363	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.222	JB	0.0227	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.185	JB	0.0313	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.117	JB	0.0205	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0953	JB	0.0398	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0392	JBQ	0.0165	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0559	JBQ	0.0148	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.157	JB	0.0341	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.294	JBQ	0.0145	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0201	JBQ	0.0174	MDL	1.04	PQL	ng/Kg	U	B
OCDF	1.48	JB	0.0351	MDL	10.4	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-128-SA6-SB-7.5-8.5

Collected: 8/2/2011 12:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.66	JB	0.0356	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.27	JB	0.0121	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.144	JB	0.0215	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0316	JB	0.0196	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.592	JB	0.0409	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.152	JB	0.0192	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.155	JB	0.0337	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.144	JBQ	0.0199	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.121	JBQ	0.0390	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0419	JBQ	0.0173	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0833	JBQ	0.0138	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.169	JB	0.0360	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.224	JB	0.0148	MDL	5.35	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0477	JBQ	0.0226	MDL	1.07	PQL	ng/Kg	U	B
OCDF	1.21	JB	0.0364	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-145-SA6-SB-3.5-4.5

Collected: 8/2/2011 8:28:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.247	JBQ	0.0171	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0462	JBQ	0.00527	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0211	JBQ	0.0110	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0141	JBQ	0.0125	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0196	JB	0.00883	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0242	JBQ	0.0127	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0239	JB	0.00721	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0504	JB	0.0121	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0509	JBQ	0.0100	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0335	JBQ	0.0140	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0219	JB	0.00947	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0125	JBQ	0.0101	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0392	JBQ	0.00990	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0154	JBQ	0.0137	MDL	1.06	PQL	ng/Kg	U	B
OCDD	0.711	JB	0.0233	MDL	10.6	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-145-SA6-SB-3.5-4.5

**Collected:** 8/2/2011 8:28:00 AM

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.110	JBQ	0.0228	MDL	10.6	PQL	ng/Kg	U	B

**Sample ID:** SL-160-SA5DN-SB-4.0-5.0

**Collected:** 8/2/2011 8:46:00 AM

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.305	JB	0.0193	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0524	JB	0.00608	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0455	JB	0.0125	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0343	JBQ	0.00946	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0207	JBQ	0.0151	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0316	JBQ	0.00800	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0490	JBQ	0.0135	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0438	JBQ	0.0114	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0179	JBQ	0.0179	MDL	5.54	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0293	JBQ	0.0109	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0225	JB	0.00912	MDL	5.54	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0411	JBQ	0.0116	MDL	5.54	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0214	JBQ	0.0173	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0173	JBQ	0.0164	MDL	1.11	PQL	ng/Kg	U	B
OCDD	0.896	JB	0.0298	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.176	JBQ	0.0304	MDL	11.1	PQL	ng/Kg	U	B

**Sample ID:** SL-162-SA5DN-SB-4.0-5.0

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

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.395	JB	0.0258	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0600	JBQ	0.00769	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0411	JBQ	0.0161	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0249	JBQ	0.0144	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0792	JBQ	0.0175	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0243	JBQ	0.0118	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.168	JB	0.0151	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.311	JB	0.0172	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0438	JB	0.0231	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0989	JB	0.0140	MDL	5.50	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-162-SA5DN-SB-4.0-5.0

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0323	JBQ	0.0134	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0534	JB	0.0153	MDL	5.50	PQL	ng/Kg	U	B
OCDD	1.56	JB	0.0318	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.185	JBQ	0.0479	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-162-SA5DN-SB-9.0-10.0

Collected: 8/2/2011 3:15:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.330	JB	0.0256	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0710	JB	0.00806	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0247	JB	0.0166	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0268	JB	0.0126	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0564	JB	0.0164	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0250	JB	0.0104	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0745	JB	0.0164	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0851	JB	0.0142	MDL	5.69	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0331	JBQ	0.0145	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0272	JB	0.0120	MDL	5.69	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0426	JBQ	0.0154	MDL	5.69	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0286	JBQ	0.0191	MDL	1.14	PQL	ng/Kg	U	B
OCDD	1.15	JB	0.0338	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.189	JBQ	0.0397	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-170-SA5DN-SB-4.0-5.0

Collected: 8/1/2011 12:01:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.94	JB	0.0214	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.244	JB	0.0248	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.212	JB	0.0653	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.275	JB	0.0334	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.815	JB	0.0660	MDL	5.40	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JB	0.0320	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.383	JB	0.0653	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.156	JB	0.0330	MDL	5.40	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.141	JBQ	0.0283	MDL	5.40	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-170-SA5DN-SB-4.0-5.0

**Collected:** 8/1/2011 12:01:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.345	JB	0.0267	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.157	JB	0.0318	MDL	5.40	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.143	JB	0.0256	MDL	5.40	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0351	JBQ	0.0162	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0903	JB	0.0455	MDL	1.08	PQL	ng/Kg	U	B
OCDF	4.55	JB	0.0266	MDL	10.8	PQL	ng/Kg	J	Z

**Sample ID:** SL-170-SA5DN-SB-9.0-10.0

**Collected:** 8/1/2011 12:02:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.756	JB	0.0288	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.172	JB	0.00880	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0725	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0301	JB	0.0166	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.111	JB	0.0141	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0535	JBQ	0.0167	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0533	JB	0.0126	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0587	JBQ	0.0156	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0722	JBQ	0.0159	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0372	JBQ	0.0216	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.152	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0420	JBQ	0.0133	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0538	JBQ	0.0140	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0313	JBQ	0.0289	MDL	1.11	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0621	JBQ	0.0265	MDL	1.11	PQL	ng/Kg	U	B
OCDD	10.4	JB	0.0248	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.418	JB	0.0310	MDL	11.1	PQL	ng/Kg	U	B

**Sample ID:** SL-173-SA5DN-SB-4.0-5.0

**Collected:** 8/1/2011 10:03:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.09	JB	0.0273	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JB	0.0109	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0442	JBQ	0.0176	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0483	JBQ	0.0130	MDL	5.67	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-173-SA5DN-SB-4.0-5.0

Collected: 8/1/2011 10:03:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0690	JBQ	0.0193	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0460	JBQ	0.0110	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0732	JBQ	0.0177	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0486	JBQ	0.0128	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0635	JBQ	0.0181	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0423	JBQ	0.0134	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0363	JB	0.0120	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0547	JB	0.0148	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0230	JBQ	0.0224	MDL	1.13	PQL	ng/Kg	U	B
OCDD	8.99	JB	0.0218	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.497	JB	0.0321	MDL	11.3	PQL	ng/Kg	U	B

Sample ID: SL-173-SA5DN-SB-9.0-10.0

Collected: 8/1/2011 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.964	JB	0.0278	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.151	JB	0.0101	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0524	JBQ	0.0165	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0302	JBQ	0.0167	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0392	JBQ	0.0141	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0682	JB	0.0172	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0345	JBQ	0.0119	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0596	JBQ	0.0159	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0316	JBQ	0.0150	MDL	5.68	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0504	JBQ	0.0315	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0425	JBQ	0.0135	MDL	5.68	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0665	JBQ	0.0150	MDL	5.68	PQL	ng/Kg	U	B
OCDD	7.55	JB	0.0248	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.380	JBQ	0.0316	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-175-SA5DN-SB-4.0-5.0

Collected: 8/1/2011 2:45:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.497	JB	0.0428	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.368	JB	0.0441	MDL	5.37	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-175-SA5DN-SB-4.0-5.0

Collected: 8/1/2011 2:45:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.337	JB	0.0384	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	1.93	JB	0.0447	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.298	JB	0.0367	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.813	JB	0.0448	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.180	JB	0.0371	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.231	JB	0.0340	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.578	JB	0.0267	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.399	JB	0.0362	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.355	JB	0.0257	MDL	5.37	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0418	JB	0.0193	MDL	1.07	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0596	JB	0.0379	MDL	1.07	PQL	ng/Kg	U	B

Sample ID: SL-175-SA5DN-SB-9.0-10.0

Collected: 8/1/2011 2:53:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.834	JB	0.0211	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.150	JB	0.0314	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.135	JB	0.0339	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.129	JB	0.0308	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.397	JB	0.0352	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JB	0.0276	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.189	JB	0.0341	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0302	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.150	JBQ	0.0280	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.135	JB	0.0137	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.149	JB	0.0295	MDL	5.67	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JBQ	0.0140	MDL	5.67	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0323	JB	0.0189	MDL	1.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0305	JBQ	0.0226	MDL	1.13	PQL	ng/Kg	U	B
OCDF	2.11	JB	0.0370	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-176-SA5DN-SB-4.0-5.0

Collected: 8/1/2011 8:21:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.33	JB	0.0502	MDL	5.39	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-176-SA5DN-SB-4.0-5.0

Collected: 8/1/2011 8:21:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.776	JB	0.0563	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.532	JB	0.0499	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	5.10	JB	0.0570	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.628	JB	0.0453	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.75	JB	0.0509	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.260	JB	0.0520	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.440	JB	0.0553	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.328	JB	0.0251	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.865	JB	0.0465	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.299	JBQ	0.0254	MDL	5.39	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0319	JBQ	0.0203	MDL	1.08	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0880	JBQ	0.0407	MDL	1.08	PQL	ng/Kg	U	B

Sample ID: SL-176-SA5DN-SB-9.0-10.0

Collected: 8/1/2011 8:23:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.80	JB	0.0192	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.238	JB	0.0345	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.106	JB	0.0458	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0946	JB	0.0270	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.560	JB	0.0462	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0952	JB	0.0234	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.216	JB	0.0439	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0689	JBQ	0.0311	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.102	JBQ	0.0282	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.103	JB	0.0135	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.135	JBQ	0.0266	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0864	JBQ	0.0142	MDL	5.60	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0268	JB	0.0154	MDL	1.12	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0243	JB	0.0194	MDL	1.12	PQL	ng/Kg	U	B
OCDF	4.52	JB	0.0369	MDL	11.2	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_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: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

Project Name and Number: 1203-004-009-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

DX123

# Method Blank Outlier Report

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

<b>Method:</b> 1613B <b>Matrix:</b> AQ				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2200B371122	8/10/2011 11:22:00 AM	1,2,3,4,6,7,8-HPCDD 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 1,2,3,7,8,9-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	3.70 pg/L 0.669 pg/L 0.287 pg/L 0.230 pg/L 0.448 pg/L 0.265 pg/L 0.242 pg/L 0.290 pg/L 0.198 pg/L 0.227 pg/L 0.517 pg/L 9.52 pg/L 1.03 pg/L	EB-SA6-SB-080211

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-080211(RES)	1,2,3,4,6,7,8-HPCDD	3.60 pg/L	3.60U pg/L
EB-SA6-SB-080211(RES)	1,2,3,4,6,7,8-HPCDF	0.333 pg/L	0.333U pg/L
EB-SA6-SB-080211(RES)	1,2,3,4,7,8,9-HPCDF	0.121 pg/L	0.121U pg/L
EB-SA6-SB-080211(RES)	1,2,3,4,7,8-HXCDF	0.177 pg/L	0.177U pg/L
EB-SA6-SB-080211(RES)	1,2,3,6,7,8-HXCDD	0.255 pg/L	0.255U pg/L
EB-SA6-SB-080211(RES)	1,2,3,7,8,9-HXCDD	0.189 pg/L	0.189U pg/L
EB-SA6-SB-080211(RES)	1,2,3,7,8,9-HXCDF	0.0584 pg/L	0.0584U pg/L
EB-SA6-SB-080211(RES)	1,2,3,7,8-PECDF	0.117 pg/L	0.117U pg/L
EB-SA6-SB-080211(RES)	OCDD	7.82 pg/L	7.82U pg/L
EB-SA6-SB-080211(RES)	OCDF	0.709 pg/L	0.709U pg/L

<b>Method:</b> 1613B <b>Matrix:</b> SO				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2270B370700	8/18/2011 7:00:00 AM	1,2,3,4,6,7,8-HPCDD 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	0.291 ng/Kg 0.0805 ng/Kg 0.0937 ng/Kg 0.0633 ng/Kg 0.0930 ng/Kg 0.0625 ng/Kg 0.0813 ng/Kg 0.0795 ng/Kg 0.0433 ng/Kg 0.117 ng/Kg 0.135 ng/Kg 0.0641 ng/Kg 0.133 ng/Kg 0.0389 ng/Kg 0.0485 ng/Kg 0.620 ng/Kg 0.171 ng/Kg	DUP22-SA5DN-QC-080111 SL-127-SA6-SB-2.0-3.0 SL-128-SA6-SB-4.0-5.0 SL-128-SA6-SB-7.5-8.5 SL-145-SA6-SB-3.5-4.5 SL-180-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-4.0-5.0 SL-162-SA5DN-SB-9.0-10.0 SL-170-SA5DN-SB-4.0-5.0 SL-170-SA5DN-SB-9.0-10.0 SL-173-SA5DN-SB-4.0-5.0 SL-173-SA5DN-SB-9.0-10.0 SL-175-SA5DN-SB-4.0-5.0 SL-175-SA5DN-SB-9.0-10.0 SL-176-SA5DN-SB-4.0-5.0 SL-176-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP22-SA5DN-QC-080111(RES)	1,2,3,4,7,8-HxCDD	0.245 ng/Kg	0.245U ng/Kg

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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
DUP22-SA5DN-QC-080111(RES)	1,2,3,4,7,8-HXCDF	0.285 ng/Kg	0.285U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,6,7,8-HXCDF	0.239 ng/Kg	0.239U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,7,8,9-HXCDF	0.156 ng/Kg	0.156U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,7,8-PECDD	0.157 ng/Kg	0.157U ng/Kg
DUP22-SA5DN-QC-080111(RES)	1,2,3,7,8-PECDF	0.385 ng/Kg	0.385U ng/Kg
DUP22-SA5DN-QC-080111(RES)	2,3,4,7,8-PECDF	0.142 ng/Kg	0.142U ng/Kg
DUP22-SA5DN-QC-080111(RES)	2,3,7,8-TCDD	0.0336 ng/Kg	0.0336U ng/Kg
DUP22-SA5DN-QC-080111(RES)	2,3,7,8-TCDF	0.0521 ng/Kg	0.0521U ng/Kg
SL-127-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.305 ng/Kg	0.305U ng/Kg
SL-127-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.257 ng/Kg	0.257U ng/Kg
SL-127-SA6-SB-2.0-3.0(RES)	2,3,7,8-TCDD	0.0984 ng/Kg	0.0984U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.199 ng/Kg	0.199U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0391 ng/Kg	0.0391U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.222 ng/Kg	0.222U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.185 ng/Kg	0.185U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.117 ng/Kg	0.117U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0953 ng/Kg	0.0953U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0392 ng/Kg	0.0392U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0559 ng/Kg	0.0559U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.294 ng/Kg	0.294U ng/Kg
SL-128-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0201 ng/Kg	0.0201U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,4,7,8,9-HPCDF	0.144 ng/Kg	0.144U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,4,7,8-HxCDD	0.0316 ng/Kg	0.0316U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDD	0.152 ng/Kg	0.152U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,6,7,8-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.144 ng/Kg	0.144U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDF	0.121 ng/Kg	0.121U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8-PECDD	0.0419 ng/Kg	0.0419U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	1,2,3,7,8-PECDF	0.0833 ng/Kg	0.0833U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	2,3,4,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-128-SA6-SB-7.5-8.5(RES)	2,3,7,8-TCDF	0.0477 ng/Kg	0.0477U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.247 ng/Kg	0.247U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0462 ng/Kg	0.0462U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0211 ng/Kg	0.0211U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HxCDD	0.0141 ng/Kg	0.0141U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.0196 ng/Kg	0.0196U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.0242 ng/Kg	0.0242U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg

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: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDD	0.0504 ng/Kg	0.0504U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HXCDF	0.0509 ng/Kg	0.0509U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.0335 ng/Kg	0.0335U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDF	0.0219 ng/Kg	0.0219U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	2,3,4,6,7,8-HXCDF	0.0125 ng/Kg	0.0125U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	2,3,7,8-TCDF	0.0154 ng/Kg	0.0154U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	OCDD	0.711 ng/Kg	0.711U ng/Kg
SL-145-SA6-SB-3.5-4.5(RES)	OCDF	0.110 ng/Kg	0.110U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.305 ng/Kg	0.305U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0343 ng/Kg	0.0343U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0207 ng/Kg	0.0207U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0316 ng/Kg	0.0316U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0490 ng/Kg	0.0490U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0438 ng/Kg	0.0438U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0179 ng/Kg	0.0179U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0214 ng/Kg	0.0214U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0173 ng/Kg	0.0173U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	OCDD	0.896 ng/Kg	0.896U ng/Kg
SL-160-SA5DN-SB-4.0-5.0(RES)	OCDF	0.176 ng/Kg	0.176U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.395 ng/Kg	0.395U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0600 ng/Kg	0.0600U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0411 ng/Kg	0.0411U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0792 ng/Kg	0.0792U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0243 ng/Kg	0.0243U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.168 ng/Kg	0.168U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0438 ng/Kg	0.0438U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0989 ng/Kg	0.0989U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0323 ng/Kg	0.0323U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0534 ng/Kg	0.0534U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	OCDD	1.56 ng/Kg	1.56U ng/Kg
SL-162-SA5DN-SB-4.0-5.0(RES)	OCDF	0.185 ng/Kg	0.185U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.330 ng/Kg	0.330U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0710 ng/Kg	0.0710U ng/Kg

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: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0247 ng/Kg	0.0247U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0564 ng/Kg	0.0564U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0250 ng/Kg	0.0250U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0745 ng/Kg	0.0745U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0851 ng/Kg	0.0851U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0331 ng/Kg	0.0331U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0272 ng/Kg	0.0272U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0286 ng/Kg	0.0286U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	OCDD	1.15 ng/Kg	1.15U ng/Kg
SL-162-SA5DN-SB-9.0-10.0(RES)	OCDF	0.189 ng/Kg	0.189U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.244 ng/Kg	0.244U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.212 ng/Kg	0.212U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.275 ng/Kg	0.275U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.383 ng/Kg	0.383U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.156 ng/Kg	0.156U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.141 ng/Kg	0.141U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.345 ng/Kg	0.345U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.143 ng/Kg	0.143U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0351 ng/Kg	0.0351U ng/Kg
SL-170-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0903 ng/Kg	0.0903U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.756 ng/Kg	0.756U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.172 ng/Kg	0.172U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0301 ng/Kg	0.0301U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0535 ng/Kg	0.0535U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0533 ng/Kg	0.0533U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0587 ng/Kg	0.0587U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0722 ng/Kg	0.0722U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0372 ng/Kg	0.0372U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.152 ng/Kg	0.152U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0538 ng/Kg	0.0538U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0313 ng/Kg	0.0313U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0621 ng/Kg	0.0621U ng/Kg
SL-170-SA5DN-SB-9.0-10.0(RES)	OCDF	0.418 ng/Kg	0.418U ng/Kg

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: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.09 ng/Kg	1.09U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0442 ng/Kg	0.0442U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0483 ng/Kg	0.0483U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0690 ng/Kg	0.0690U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0460 ng/Kg	0.0460U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0732 ng/Kg	0.0732U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0486 ng/Kg	0.0486U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0635 ng/Kg	0.0635U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0423 ng/Kg	0.0423U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0363 ng/Kg	0.0363U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0547 ng/Kg	0.0547U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0230 ng/Kg	0.0230U ng/Kg
SL-173-SA5DN-SB-4.0-5.0(RES)	OCDF	0.497 ng/Kg	0.497U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.964 ng/Kg	0.964U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.151 ng/Kg	0.151U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0524 ng/Kg	0.0524U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0302 ng/Kg	0.0302U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0682 ng/Kg	0.0682U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0345 ng/Kg	0.0345U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0596 ng/Kg	0.0596U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0316 ng/Kg	0.0316U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0504 ng/Kg	0.0504U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0425 ng/Kg	0.0425U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0665 ng/Kg	0.0665U ng/Kg
SL-173-SA5DN-SB-9.0-10.0(RES)	OCDF	0.380 ng/Kg	0.380U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.337 ng/Kg	0.337U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.298 ng/Kg	0.298U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.180 ng/Kg	0.180U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.231 ng/Kg	0.231U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.578 ng/Kg	0.578U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.355 ng/Kg	0.355U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0418 ng/Kg	0.0418U ng/Kg
SL-175-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0596 ng/Kg	0.0596U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.150 ng/Kg	0.150U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.135 ng/Kg	0.135U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.129 ng/Kg	0.129U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.189 ng/Kg	0.189U ng/Kg

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: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.150 ng/Kg	0.150U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.135 ng/Kg	0.135U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.149 ng/Kg	0.149U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0323 ng/Kg	0.0323U ng/Kg
SL-175-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0305 ng/Kg	0.0305U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.440 ng/Kg	0.440U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.328 ng/Kg	0.328U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.299 ng/Kg	0.299U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDD	0.0319 ng/Kg	0.0319U ng/Kg
SL-176-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0880 ng/Kg	0.0880U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.238 ng/Kg	0.238U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0946 ng/Kg	0.0946U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0952 ng/Kg	0.0952U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.216 ng/Kg	0.216U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0689 ng/Kg	0.0689U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.102 ng/Kg	0.102U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.103 ng/Kg	0.103U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0864 ng/Kg	0.0864U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDD	0.0268 ng/Kg	0.0268U ng/Kg
SL-176-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0243 ng/Kg	0.0243U ng/Kg



# Field Duplicate RPD Report

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

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

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-175-SA5DN-SB-4.0- 5.0	DUP22-SA5DN-QC- 080111			
1,2,3,4,6,7,8-HPCDD	48.0	40.8	16	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	6.13	5.67	8	50.00	
1,2,3,4,7,8,9-HPCDF	0.497	0.551	10	50.00	
1,2,3,4,7,8-HxCDD	0.368	0.245	40	50.00	
1,2,3,4,7,8-HxCDF	0.337	0.285	17	50.00	
1,2,3,6,7,8-HxCDD	1.93	1.59	19	50.00	
1,2,3,6,7,8-HxCDF	0.298	0.239	22	50.00	
1,2,3,7,8,9-HxCDD	0.813	0.609	29	50.00	
1,2,3,7,8,9-HxCDF	0.180	0.156	14	50.00	
1,2,3,7,8-PECDD	0.231	0.157	38	50.00	
1,2,3,7,8-PECDF	0.578	0.385	40	50.00	
2,3,4,6,7,8-HxCDF	0.399	0.323	21	50.00	
2,3,7,8-TCDD	0.0418	0.0336	22	50.00	
2,3,7,8-TCDF	0.0596	0.0521	13	50.00	
OCDD	565	413	31	50.00	
OCDF	15.7	16.9	7	50.00	
2,3,4,7,8-PECDF	0.355	0.142	86	50.00	J(all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080211	1,2,3,4,6,7,8-HPCDD	JBQ	3.60	10.4	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.333	10.4	PQL	pg/L	
	1,2,3,4,7,8-HPCDF	JBQ	0.121	10.4	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.177	10.4	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.255	10.4	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.189	10.4	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.0584	10.4	PQL	pg/L	
	1,2,3,7,8-PCDF	JBQ	0.117	10.4	PQL	pg/L	
	2,3,7,8-TCDF	JQ	0.136	2.07	PQL	pg/L	
	OCDD	JB	7.82	20.7	PQL	pg/L	
	OCDF	JBQ	0.709	20.7	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP22-SA5DN-QC-080111	1,2,3,4,7,8,9-HPCDF	JB	0.551	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.245	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.285	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.59	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.239	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.609	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.156	5.46	PQL	ng/Kg	
	1,2,3,7,8-PCDD	JBQ	0.157	5.46	PQL	ng/Kg	
	1,2,3,7,8-PCDF	JB	0.385	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.323	5.46	PQL	ng/Kg	
	2,3,4,7,8-PCDF	JB	0.142	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0336	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0521	1.09	PQL	ng/Kg	
SL-127-SA6-SB-2.0-3.0	1,2,3,4,7,8,9-HPCDF	JB	0.536	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.305	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	2.45	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.00	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.618	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.515	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.245	5.00	PQL	ng/Kg	
	1,2,3,7,8-PCDD	JB	0.257	5.00	PQL	ng/Kg	
	1,2,3,7,8-PCDF	JB	2.38	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.629	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0984	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.255	1.00	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-128-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	4.38	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.43	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.199	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0391	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.847	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.222	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.185	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.117	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.0953	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0392	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0559	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.157	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.294	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0201	1.04	PQL	ng/Kg	
	OCDF	JB	1.48	10.4	PQL	ng/Kg	
SL-128-SA6-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JB	2.66	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.27	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.144	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0316	5.35	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.592	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.152	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.155	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.144	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.121	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0419	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0833	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.169	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.224	5.35	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0477	1.07	PQL	ng/Kg	
	OCDF	JB	1.21	10.7	PQL	ng/Kg	
SL-145-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.247	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0462	5.30	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0211	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0141	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0196	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0242	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0239	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0504	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0509	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0335	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0219	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0125	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0392	5.30	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0154	1.06	PQL	ng/Kg	
	OCDD	JB	0.711	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.110	10.6	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-160-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.305	5.54	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0524	5.54	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0455	5.54	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0343	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0207	5.54	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0316	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0490	5.54	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0438	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0179	5.54	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0293	5.54	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0225	5.54	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0411	5.54	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0214	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0173	1.11	PQL	ng/Kg	
	OCDD	JB	0.896	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.176	11.1	PQL	ng/Kg	
SL-162-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.395	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0600	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0411	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0249	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0792	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0243	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.168	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.311	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0438	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0989	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0323	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0534	5.50	PQL	ng/Kg	
	OCDD	JB	1.56	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.185	11.0	PQL	ng/Kg	
SL-162-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.330	5.69	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0710	5.69	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0247	5.69	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0268	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0564	5.69	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0250	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0745	5.69	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0851	5.69	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0331	5.69	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0272	5.69	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0426	5.69	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0286	1.14	PQL	ng/Kg	
	OCDD	JB	1.15	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.189	11.4	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-170-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.94	5.40	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.244	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.212	5.40	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.275	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.815	5.40	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.147	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.383	5.40	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.156	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.141	5.40	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.345	5.40	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.157	5.40	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.143	5.40	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0351	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0903	1.08	PQL	ng/Kg	
	OCDF	JB	4.55	10.8	PQL	ng/Kg	
SL-170-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.756	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.172	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0725	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0301	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.111	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0535	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0533	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0587	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0722	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0372	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.152	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0420	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0538	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0313	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0621	1.11	PQL	ng/Kg	
SL-173-SA5DN-SB-4.0-5.0	OCDD	JB	10.4	11.1	PQL	ng/Kg	
	OCDF	JB	0.418	11.1	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDD	JB	1.09	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.195	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0442	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0483	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0690	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0460	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0732	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0486	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0635	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0423	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0363	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0547	5.67	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0230	1.13	PQL	ng/Kg	
	OCDD	JB	8.99	11.3	PQL	ng/Kg	
	OCDF	JB	0.497	11.3	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-173-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.964	5.68	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.151	5.68	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0524	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0302	5.68	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0392	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0682	5.68	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0345	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0596	5.68	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0316	5.68	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0504	5.68	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0425	5.68	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0665	5.68	PQL	ng/Kg	
	OCDD	JB	7.55	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.380	11.4	PQL	ng/Kg	
SL-175-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.497	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.368	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.337	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.93	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.298	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.813	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.180	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.231	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.578	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.399	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.355	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0418	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0596	1.07	PQL	ng/Kg	
SL-175-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	0.834	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.150	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.135	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.129	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.397	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.125	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.189	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.135	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.150	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.135	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.149	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.170	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0323	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0305	1.13	PQL	ng/Kg	
	OCDF	JB	2.11	11.3	PQL	ng/Kg	
SL-176-SA5DN-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.33	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.776	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.532	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	5.10	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.628	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.75	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.260	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.440	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.328	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.865	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.299	5.39	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.0319	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0880	1.08	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX123

Laboratory: LL

EDD Filename: DX123\_v1.

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-176-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.80	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.238	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0946	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.560	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0952	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.216	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0689	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.102	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.103	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.135	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0864	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	JB	0.0268	1.12	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0243	1.12	PQL	ng/Kg	
	OCDF	JB	4.52	11.2	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX124**



## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
03-Aug-2011	SL-011-SA6-SB-0.5-1.5	6364636	N	METHOD	1613B	III
03-Aug-2011	SL-003-SA6-SB-4.0-5.0	6364633	N	METHOD	1613B	III
03-Aug-2011	SL-003-SA6-SB-8.5-9.5	6364634	N	METHOD	1613B	III
03-Aug-2011	SL-188-SA5DN-SB-4.0-5.0	6364638	N	METHOD	1613B	III
03-Aug-2011	SL-004-SA6-SB-1.5-2.5	6364635	N	METHOD	1613B	III
03-Aug-2011	SL-188-SA5DN-SB-9.0-10.0	6364639	N	METHOD	1613B	III
03-Aug-2011	EB23-SA5DN-SB-080311	6364637	EB	METHOD	1613B	III
03-Aug-2011	SL-193-SA5DN-SB-4.0-5.0	6364640	N	METHOD	1613B	III
03-Aug-2011	SL-002-SA6-SB-4.0-5.0	6364631	N	METHOD	1613B	III
03-Aug-2011	SL-002-SA6-SB-9.0-10.0	6364632	N	METHOD	1613B	III
03-Aug-2011	SL-193-SA5DN-SB-9.0-10.0	6364641	N	METHOD	1613B	III
04-Aug-2011	SL-204-SA5DN-SB-9.0-10.0	6366529	N	METHOD	1613B	III
04-Aug-2011	SL-204-SA5DN-SB-4.0-5.0	6366528	N	METHOD	1613B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0	6366524	N	METHOD	1613B	III
04-Aug-2011	SL-189-SA5DN-SB-4.0-5.0 M	6366525	MS	METHOD	1613B	III
04-Aug-2011	DUP23-SA5DN-QC-080411	6366530	FD	METHOD	1613B	III
04-Aug-2011	SL-189-SA5DN-SB-9.0-10.0	6366527	N	METHOD	1613B	III
04-Aug-2011	SL-185-SA5DN-SB-4.0-5.0	6366522	N	METHOD	1613B	III
04-Aug-2011	SL-185-SA5DN-SB-9.0-10.0	6366523	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: AQ

Sample ID: EB23-SA5DN-SB-080311

Collected: 8/3/2011 1:00:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.78	JBQ	0.257	MDL	11.2	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.491	JBQ	0.119	MDL	11.2	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.350	JBQ	0.135	MDL	11.2	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.216	JQ	0.190	MDL	11.2	PQL	pg/L	J	Z
1,2,3,4,7,8-HxCDF	0.211	JB	0.123	MDL	11.2	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDD	0.339	JBQ	0.204	MDL	11.2	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.263	JQ	0.109	MDL	11.2	PQL	pg/L	J	Z
1,2,3,7,8-PECDD	0.493	JBQ	0.264	MDL	11.2	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.557	JBQ	0.179	MDL	11.2	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.256	JBQ	0.118	MDL	11.2	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.634	JBQ	0.173	MDL	11.2	PQL	pg/L	U	B
OCDD	8.38	JB	0.413	MDL	22.4	PQL	pg/L	U	B
OCDF	0.812	JBQ	0.285	MDL	22.4	PQL	pg/L	U	B

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: DUP23-SA5DN-QC-080411

Collected: 8/4/2011 10:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.553	JB	0.0133	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0922	JB	0.00432	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0292	JB	0.0102	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0395	JB	0.0105	MDL	5.31	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDF	0.0860	JB	0.00787	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0993	JBQ	0.0111	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0697	JB	0.00643	MDL	5.31	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-HxCDD	0.163	JB	0.0108	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-HxCDF	0.193	JB	0.00965	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0762	JB	0.0110	MDL	5.31	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.178	JB	0.00654	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0467	JB	0.00765	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.125	JB	0.00698	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0290	JQ	0.00942	MDL	1.06	PQL	ng/Kg	J	Z, FD

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>		
<b>Method:</b>	<b>1613B</b>	<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP23-SA5DN-QC-080411

Collected: 8/4/2011 10:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0436	JB	0.0120	MDL	1.06	PQL	ng/Kg	UJ	B, FD
OCDD	5.41	JB	0.0116	MDL	10.6	PQL	ng/Kg	J	Z, FD
OCDF	0.251	JBQ	0.0195	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-002-SA6-SB-4.0-5.0

Collected: 8/3/2011 2:30:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.99	JB	0.0170	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.983	JB	0.0267	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.126	JB	0.0238	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.521	JB	0.0226	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.31	JB	0.0249	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.305	JB	0.0214	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.496	JB	0.0231	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.174	JB	0.0269	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.209	JB	0.0225	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.13	JB	0.0175	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.358	JB	0.0212	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.812	JB	0.0177	MDL	5.53	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0335	J	0.0151	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.256	JB	0.0348	MDL	1.11	PQL	ng/Kg	J	Z

Sample ID: SL-002-SA6-SB-9.0-10.0

Collected: 8/3/2011 2:33:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.89	JB	0.0119	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.773	JB	0.0225	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0984	JB	0.0248	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.681	JB	0.0197	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.826	JB	0.0254	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.423	JB	0.0171	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.295	JB	0.0244	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.167	JB	0.0209	MDL	5.49	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0749	JB	0.0150	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	2.82	JB	0.0192	MDL	5.49	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

12/21/2011 11:55:41 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-002-SA6-SB-9.0-10.0

Collected: 8/3/2011 2:33:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.345	JB	0.0180	MDL	5.49	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.67	JB	0.0193	MDL	5.49	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0170	J	0.0102	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.323	JB	0.0384	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	10.8	JB	0.0202	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-003-SA6-SB-4.0-5.0

Collected: 8/3/2011 8:40:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.73	JB	0.0131	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.560	JB	0.0261	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0728	JB	0.0212	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.319	JB	0.0210	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.650	JB	0.0213	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.212	JB	0.0177	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.268	JB	0.0207	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0997	JB	0.0234	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0835	JB	0.0152	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.409	JB	0.0155	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.229	JB	0.0185	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.505	JB	0.0159	MDL	5.85	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0327	J	0.0137	MDL	1.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0893	JB	0.0297	MDL	1.17	PQL	ng/Kg	U	B
OCDF	7.17	JB	0.0261	MDL	11.7	PQL	ng/Kg	J	Z

Sample ID: SL-003-SA6-SB-8.5-9.5

Collected: 8/3/2011 8:44:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.67	JB	0.0124	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.521	JB	0.0202	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0873	JB	0.0228	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.412	JB	0.0179	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.690	JB	0.0240	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.214	JB	0.0157	MDL	5.47	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.263	JB	0.0217	MDL	5.47	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-003-SA6-SB-8.5-9.5

Collected: 8/3/2011 8:44:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.106	JBQ	0.0193	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0489	JB	0.0167	MDL	5.47	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.354	JB	0.0150	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.251	JB	0.0161	MDL	5.47	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.715	JB	0.0153	MDL	5.47	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0352	J	0.0121	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.264	JB	0.0312	MDL	1.09	PQL	ng/Kg	J	Z
OCDF	7.76	JB	0.0218	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-004-SA6-SB-1.5-2.5

Collected: 8/3/2011 11:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.86	JB	0.0110	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.490	JB	0.0286	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0871	JB	0.0195	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.199	JB	0.0161	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.722	JB	0.0198	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.143	JBQ	0.0126	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.249	JB	0.0187	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0347	JBQ	0.0204	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0272	JBQ	0.0126	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0840	JB	0.00872	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.181	JB	0.0139	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.120	JB	0.00955	MDL	5.15	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0138	JQ	0.0113	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0152	JBQ	0.0116	MDL	1.03	PQL	ng/Kg	U	B
OCDF	8.66	JB	0.0304	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-011-SA6-SB-0.5-1.5

Collected: 8/3/2011 7:54:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.77	JB	0.0162	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.324	JB	0.00697	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0846	JB	0.0126	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0570	JB	0.0155	MDL	5.27	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-011-SA6-SB-0.5-1.5

Collected: 8/3/2011 7:54:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.165	JB	0.0158	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.197	JB	0.0160	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0916	JB	0.0126	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.157	JB	0.0154	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0612	JB	0.0153	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.118	JBQ	0.0134	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0907	JB	0.00954	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0810	JB	0.0120	MDL	5.27	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.371	JB	0.0101	MDL	5.27	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0383	J	0.0108	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	0.657	JB	0.0208	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-185-SA5DN-SB-4.0-5.0

Collected: 8/4/2011 3:20:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.411	JB	0.0141	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0610	JBQ	0.00459	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0534	JB	0.0148	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0172	JBQ	0.0103	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0240	JB	0.00781	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0521	JBQ	0.0108	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0204	JBQ	0.00586	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0612	JBQ	0.0102	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0932	JBQ	0.00999	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0146	JB	0.0103	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0223	JBQ	0.00608	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0216	JB	0.00700	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0530	JB	0.00700	MDL	5.72	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0159	J	0.0117	MDL	1.14	PQL	ng/Kg	J	Z
OCDD	1.18	JB	0.0118	MDL	11.4	PQL	ng/Kg	U	B
OCDF	0.194	JBQ	0.0347	MDL	11.4	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-185-SA5DN-SB-9.0-10.0

Collected: 8/4/2011 3:30:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.436	JB	0.0149	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0605	JB	0.00411	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0455	JBQ	0.0131	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0288	JBQ	0.00651	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0143	JBQ	0.00926	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0141	JBQ	0.00491	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0348	JBQ	0.00846	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0383	JB	0.00857	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0205	JBQ	0.00926	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0136	JB	0.00526	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0127	JBQ	0.00549	MDL	5.71	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0385	JB	0.00617	MDL	5.71	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0114	JBQ	0.0106	MDL	1.14	PQL	ng/Kg	U	B
OCDD	2.94	JB	0.0127	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.303	JB	0.0337	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-188-SA5DN-SB-4.0-5.0

Collected: 8/3/2011 10:57:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.516	JB	0.0146	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.147	JB	0.00529	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0849	JB	0.0144	MDL	5.73	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.154	JB	0.0112	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.263	JB	0.0112	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.170	JB	0.0116	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.214	JB	0.00863	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.152	JB	0.0112	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.200	JB	0.0148	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.298	JB	0.0136	MDL	5.73	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.352	JB	0.00725	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.147	JB	0.0100	MDL	5.73	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.339	JB	0.00806	MDL	5.73	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0952	J	0.0131	MDL	1.15	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.105	JB	0.0139	MDL	1.15	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>	
<b>Method:</b>	<b>1613B</b>	<b>Matrix: SO</b>

Sample ID: SL-188-SA5DN-SB-4.0-5.0

Collected: 8/3/2011 10:57:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	1.93	JB	0.0129	MDL	11.5	PQL	ng/Kg	U	B
OCDF	0.295	JB	0.0255	MDL	11.5	PQL	ng/Kg	U	B

Sample ID: SL-188-SA5DN-SB-9.0-10.0

Collected: 8/3/2011 11:58:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.904	JB	0.0162	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.203	JB	0.00538	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0855	JB	0.0155	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.106	JB	0.0115	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.239	JB	0.0127	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.153	JB	0.0123	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.183	JB	0.00974	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.182	JB	0.0118	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.218	JBQ	0.0174	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.192	JB	0.0129	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.431	JB	0.00997	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.121	JB	0.0119	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.304	JB	0.0112	MDL	5.57	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0764	J	0.0115	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.137	JB	0.0246	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	6.68	JB	0.0136	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.445	JB	0.0304	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-189-SA5DN-SB-4.0-5.0

Collected: 8/4/2011 10:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.535	JB	0.0142	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0913	JB	0.00418	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0461	JB	0.0142	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0112	JBQ	0.0111	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDF	0.0910	JB	0.0100	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0686	JB	0.0112	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0249	JB	0.00736	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.176	JB	0.0109	MDL	5.24	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-189-SA5DN-SB-4.0-5.0

Collected: 8/4/2011 10:52:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.227	JB	0.0138	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0182	JB	0.0120	MDL	5.24	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.231	JB	0.00978	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0404	JB	0.00868	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.115	JB	0.0113	MDL	5.24	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0108	U	0.0108	MDL	1.05	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0754	JB	0.0241	MDL	1.05	PQL	ng/Kg	UJ	B, FD
OCDD	2.91	JB	0.0100	MDL	10.5	PQL	ng/Kg	J	Z, FD
OCDF	0.221	JB	0.0284	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-189-SA5DN-SB-9.0-10.0

Collected: 8/4/2011 11:37:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.36	JB	0.0151	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.261	JB	0.00611	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.133	JB	0.0180	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0690	JBQ	0.0141	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.295	JB	0.0149	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.120	JB	0.0146	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.129	JB	0.0113	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.146	JB	0.0140	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.177	JB	0.0176	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.120	JB	0.0125	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.643	JB	0.0151	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.138	JB	0.0131	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.237	JB	0.0175	MDL	5.67	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0229	JQ	0.0110	MDL	1.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.188	JB	0.0385	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	8.78	JB	0.0136	MDL	11.3	PQL	ng/Kg	J	Z
OCDF	0.717	JB	0.0294	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-4.0-5.0

Collected: 8/3/2011 2:00:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.81	JB	0.00879	MDL	5.56	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-193-SA5DN-SB-4.0-5.0

Collected: 8/3/2011 2:00:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.357	JB	0.0227	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.141	JB	0.0203	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.313	JB	0.0169	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.542	JB	0.0215	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.208	JB	0.0138	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.307	JB	0.0194	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.161	JB	0.0203	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.150	JB	0.0171	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.588	JB	0.0124	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.268	JB	0.0154	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.403	JB	0.0138	MDL	5.56	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0357	J	0.0126	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.167	JB	0.0345	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	8.65	JB	0.0326	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-193-SA5DN-SB-9.0-10.0

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.16	JB	0.0237	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.806	JB	0.00635	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.134	JB	0.0210	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0462	JB	0.0157	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.153	JB	0.0126	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.220	JB	0.0166	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0868	JB	0.00947	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.127	JB	0.0165	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0417	JBQ	0.0180	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0374	JB	0.0117	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.136	JBQ	0.00970	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.104	JB	0.0115	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.195	JB	0.0109	MDL	5.57	PQL	ng/Kg	U	B
OCDF	2.12	JB	0.0358	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-204-SA5DN-SB-4.0-5.0

Collected: 8/4/2011 9:20:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.02	JB	0.0234	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.600	JB	0.00665	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.129	JB	0.0200	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.115	JB	0.0150	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.453	JB	0.0173	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.291	JB	0.0160	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.165	JB	0.0129	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.437	JB	0.0156	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.404	JB	0.0220	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.173	JB	0.0159	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.516	JB	0.0135	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.168	JB	0.0161	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.394	JB	0.0154	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0495	J	0.0105	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.171	JB	0.0345	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	1.52	JB	0.0315	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-204-SA5DN-SB-9.0-10.0

Collected: 8/4/2011 9:00:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.688	JB	0.0127	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.134	JB	0.00456	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0672	JB	0.0137	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0929	JB	0.0116	MDL	5.85	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.150	JB	0.0106	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.146	JB	0.0122	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.104	JB	0.00760	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.233	JB	0.0118	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.311	JB	0.0143	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.154	JB	0.0130	MDL	5.85	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.248	JBQ	0.00655	MDL	5.85	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0769	JB	0.00877	MDL	5.85	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.195	JB	0.00737	MDL	5.85	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0436	J	0.00994	MDL	1.17	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-204-SA5DN-SB-9.0-10.0

Collected: 8/4/2011 9:00:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0890	JBQ	0.0119	MDL	1.17	PQL	ng/Kg	U	B
OCDD	4.26	JB	0.0119	MDL	11.7	PQL	ng/Kg	J	Z
OCDF	0.274	JB	0.0283	MDL	11.7	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_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: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX124

# Method Blank Outlier Report

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2200B371122	8/10/2011 11:22:00 AM	1,2,3,4,6,7,8-HPCDD 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 1,2,3,7,8,9-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	3.70 pg/L 0.669 pg/L 0.287 pg/L 0.230 pg/L 0.448 pg/L 0.265 pg/L 0.242 pg/L 0.290 pg/L 0.198 pg/L 0.227 pg/L 0.517 pg/L 9.52 pg/L 1.03 pg/L	EB23-SA5DN-SB-080311

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB23-SA5DN-SB-080311(RES)	1,2,3,4,6,7,8-HPCDD	3.78 pg/L	3.78U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,4,6,7,8-HPCDF	0.491 pg/L	0.491U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,4,7,8,9-HPCDF	0.350 pg/L	0.350U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,4,7,8-HXCDF	0.211 pg/L	0.211U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,6,7,8-HXCDD	0.339 pg/L	0.339U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,7,8-PECDD	0.493 pg/L	0.493U pg/L
EB23-SA5DN-SB-080311(RES)	1,2,3,7,8-PECDF	0.557 pg/L	0.557U pg/L
EB23-SA5DN-SB-080311(RES)	2,3,4,6,7,8-HXCDF	0.256 pg/L	0.256U pg/L
EB23-SA5DN-SB-080311(RES)	2,3,4,7,8-PECDF	0.634 pg/L	0.634U pg/L
EB23-SA5DN-SB-080311(RES)	OCDD	8.38 pg/L	8.38U pg/L
EB23-SA5DN-SB-080311(RES)	OCDF	0.812 pg/L	0.812U pg/L

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2290B371948	8/18/2011 7:48:00 PM	1,2,3,4,6,7,8-HPCDD 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	0.267 ng/Kg 0.0532 ng/Kg 0.0269 ng/Kg 0.0255 ng/Kg 0.0250 ng/Kg 0.0273 ng/Kg 0.0177 ng/Kg 0.0242 ng/Kg 0.0309 ng/Kg 0.0222 ng/Kg 0.0101 ng/Kg 0.0227 ng/Kg 0.0441 ng/Kg 0.0189 ng/Kg 0.507 ng/Kg 0.138 ng/Kg	DUP23-SA5DN-QC-080411 SL-002-SA6-SB-4.0-5.0 SL-002-SA6-SB-9.0-10.0 SL-003-SA6-SB-4.0-5.0 SL-003-SA6-SB-8.5-9.5 SL-004-SA6-SB-1.5-2.5 SL-011-SA6-SB-0.5-1.5 SL-185-SA5DN-SB-4.0-5.0 SL-185-SA5DN-SB-9.0-10.0 SL-188-SA5DN-SB-4.0-5.0 SL-188-SA5DN-SB-9.0-10.0 SL-189-SA5DN-SB-4.0-5.0 SL-189-SA5DN-SB-9.0-10.0 SL-193-SA5DN-SB-4.0-5.0 SL-193-SA5DN-SB-9.0-10.0 SL-204-SA5DN-SB-4.0-5.0 SL-204-SA5DN-SB-9.0-10.0

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,6,7,8-HPCDD	0.553 ng/Kg	0.553U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,6,7,8-HPCDF	0.0922 ng/Kg	0.0922U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,7,8,9-HPCDF	0.0292 ng/Kg	0.0292U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,7,8-HxCDD	0.0395 ng/Kg	0.0395U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,4,7,8-HxCDF	0.0860 ng/Kg	0.0860U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,6,7,8-HxCDD	0.0993 ng/Kg	0.0993U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,6,7,8-HxCDF	0.0697 ng/Kg	0.0697U ng/Kg
DUP23-SA5DN-QC-080411(RES)	1,2,3,7,8-PECDD	0.0762 ng/Kg	0.0762U ng/Kg
DUP23-SA5DN-QC-080411(RES)	2,3,4,6,7,8-HxCDF	0.0467 ng/Kg	0.0467U ng/Kg
DUP23-SA5DN-QC-080411(RES)	2,3,4,7,8-PECDF	0.125 ng/Kg	0.125U ng/Kg
DUP23-SA5DN-QC-080411(RES)	2,3,7,8-TCDF	0.0436 ng/Kg	0.0436U ng/Kg
DUP23-SA5DN-QC-080411(RES)	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-002-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.126 ng/Kg	0.126U ng/Kg
SL-002-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0984 ng/Kg	0.0984U ng/Kg
SL-002-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0728 ng/Kg	0.0728U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0997 ng/Kg	0.0997U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0835 ng/Kg	0.0835U ng/Kg
SL-003-SA6-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0893 ng/Kg	0.0893U ng/Kg
SL-003-SA6-SB-8.5-9.5(RES)	1,2,3,4,7,8-HxCDD	0.0873 ng/Kg	0.0873U ng/Kg
SL-003-SA6-SB-8.5-9.5(RES)	1,2,3,7,8,9-HxCDF	0.106 ng/Kg	0.106U ng/Kg
SL-003-SA6-SB-8.5-9.5(RES)	1,2,3,7,8-PECDD	0.0489 ng/Kg	0.0489U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	1,2,3,4,7,8-HxCDD	0.0871 ng/Kg	0.0871U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	1,2,3,7,8,9-HxCDF	0.0347 ng/Kg	0.0347U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	1,2,3,7,8-PECDD	0.0272 ng/Kg	0.0272U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-004-SA6-SB-1.5-2.5(RES)	2,3,7,8-TCDF	0.0152 ng/Kg	0.0152U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0846 ng/Kg	0.0846U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	1,2,3,4,7,8-HxCDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	1,2,3,7,8,9-HxCDF	0.0612 ng/Kg	0.0612U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	2,3,4,6,7,8-HxCDF	0.0810 ng/Kg	0.0810U ng/Kg
SL-011-SA6-SB-0.5-1.5(RES)	OCDF	0.657 ng/Kg	0.657U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.411 ng/Kg	0.411U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0534 ng/Kg	0.0534U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0172 ng/Kg	0.0172U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0240 ng/Kg	0.0240U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0521 ng/Kg	0.0521U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0204 ng/Kg	0.0204U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0612 ng/Kg	0.0612U ng/Kg

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: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0932 ng/Kg	0.0932U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0146 ng/Kg	0.0146U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0223 ng/Kg	0.0223U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0216 ng/Kg	0.0216U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0530 ng/Kg	0.0530U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	OCDD	1.18 ng/Kg	1.18U ng/Kg
SL-185-SA5DN-SB-4.0-5.0(RES)	OCDF	0.194 ng/Kg	0.194U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.436 ng/Kg	0.436U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0455 ng/Kg	0.0455U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0288 ng/Kg	0.0288U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0143 ng/Kg	0.0143U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0141 ng/Kg	0.0141U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0348 ng/Kg	0.0348U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0383 ng/Kg	0.0383U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0205 ng/Kg	0.0205U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0136 ng/Kg	0.0136U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0127 ng/Kg	0.0127U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0385 ng/Kg	0.0385U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0114 ng/Kg	0.0114U ng/Kg
SL-185-SA5DN-SB-9.0-10.0(RES)	OCDF	0.303 ng/Kg	0.303U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.516 ng/Kg	0.516U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.147 ng/Kg	0.147U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0849 ng/Kg	0.0849U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	OCDD	1.93 ng/Kg	1.93U ng/Kg
SL-188-SA5DN-SB-4.0-5.0(RES)	OCDF	0.295 ng/Kg	0.295U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.904 ng/Kg	0.904U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.203 ng/Kg	0.203U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0855 ng/Kg	0.0855U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
SL-188-SA5DN-SB-9.0-10.0(RES)	OCDF	0.445 ng/Kg	0.445U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.535 ng/Kg	0.535U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0913 ng/Kg	0.0913U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0461 ng/Kg	0.0461U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0112 ng/Kg	0.0112U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0910 ng/Kg	0.0910U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0686 ng/Kg	0.0686U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0249 ng/Kg	0.0249U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0182 ng/Kg	0.0182U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0404 ng/Kg	0.0404U ng/Kg

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: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.115 ng/Kg	0.115U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	2,3,7,8-TCDF	0.0754 ng/Kg	0.0754U ng/Kg
SL-189-SA5DN-SB-4.0-5.0(RES)	OCDF	0.221 ng/Kg	0.221U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.261 ng/Kg	0.261U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0690 ng/Kg	0.0690U ng/Kg
SL-189-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDD	0.120 ng/Kg	0.120U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0462 ng/Kg	0.0462U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0417 ng/Kg	0.0417U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0374 ng/Kg	0.0374U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.104 ng/Kg	0.104U ng/Kg
SL-193-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.195 ng/Kg	0.195U ng/Kg
SL-204-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.129 ng/Kg	0.129U ng/Kg
SL-204-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.115 ng/Kg	0.115U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.688 ng/Kg	0.688U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.134 ng/Kg	0.134U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0672 ng/Kg	0.0672U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0929 ng/Kg	0.0929U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0769 ng/Kg	0.0769U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.195 ng/Kg	0.195U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	2,3,7,8-TCDF	0.0890 ng/Kg	0.0890U ng/Kg
SL-204-SA5DN-SB-9.0-10.0(RES)	OCDF	0.274 ng/Kg	0.274U ng/Kg

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: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
MOISTURE	9.0	9.8	9		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-189-SA5DN-SB-4.0-5.0	DUP23-SA5DN-QC-080411			
1,2,3,4,6,7,8-HPCDD	0.535	0.553	3	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.0913	0.0922	1	50.00	
1,2,3,4,7,8,9-HPCDF	0.0461	0.0292	45	50.00	
1,2,3,4,7,8-HXCDF	0.0910	0.0860	6	50.00	
1,2,3,6,7,8-HXCDD	0.0686	0.0993	37	50.00	
1,2,3,7,8,9-HXCDD	0.176	0.163	8	50.00	
1,2,3,7,8,9-HXCDF	0.227	0.193	16	50.00	
1,2,3,7,8-PECDF	0.231	0.178	26	50.00	
2,3,4,6,7,8-HXCDF	0.0404	0.0467	14	50.00	
2,3,4,7,8-PECDF	0.115	0.125	8	50.00	
OCDF	0.221	0.251	13	50.00	
1,2,3,4,7,8-HxCDD	0.0112	0.0395	112	50.00	J(all detects) UJ(all non-detects)
1,2,3,6,7,8-HXCDF	0.0249	0.0697	95	50.00	
1,2,3,7,8-PECDD	0.0182	0.0762	123	50.00	
2,3,7,8-TCDD	1.05 U	0.0290	200	50.00	
2,3,7,8-TCDF	0.0754	0.0436	53	50.00	
OCDD	2.91	5.41	60	50.00	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB23-SA5DN-SB-080311	1,2,3,4,6,7,8-HPCDD	JBQ	3.78	11.2	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.491	11.2	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.350	11.2	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JQ	0.216	11.2	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.211	11.2	PQL	pg/L	
	1,2,3,6,7,8-HxCDD	JBQ	0.339	11.2	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JQ	0.263	11.2	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.493	11.2	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.557	11.2	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.256	11.2	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.634	11.2	PQL	pg/L	
	OCDD	JB	8.38	22.4	PQL	pg/L	
	OCDF	JBQ	0.812	22.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP23-SA5DN-QC-080411	1,2,3,4,6,7,8-HPCDD	JB	0.553	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0922	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0292	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0395	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0860	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0993	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0697	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.163	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.193	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0762	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.178	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0467	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.125	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0290	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0436	1.06	PQL	ng/Kg	
	OCDD	JB	5.41	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.251	10.6	PQL	ng/Kg	
SL-002-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.99	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.983	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.126	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.521	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.31	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.305	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.496	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.174	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.209	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.13	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.358	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.812	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0335	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.256	1.11	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-002-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	3.89	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.773	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0984	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.681	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.826	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.423	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.295	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.167	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0749	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.82	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.345	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.67	5.49	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0170	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.323	1.10	PQL	ng/Kg	
	OCDF	JB	10.8	11.0	PQL	ng/Kg	
SL-003-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.73	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.560	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0728	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.319	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.650	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.212	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.268	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0997	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0835	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.409	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.229	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.505	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0327	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0893	1.17	PQL	ng/Kg	
	OCDF	JB	7.17	11.7	PQL	ng/Kg	
SL-003-SA6-SB-8.5-9.5	1,2,3,4,6,7,8-HPCDF	JB	2.67	5.47	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.521	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0873	5.47	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.412	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.690	5.47	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.214	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.263	5.47	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.106	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0489	5.47	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.354	5.47	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.251	5.47	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.715	5.47	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0352	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.264	1.09	PQL	ng/Kg	
	OCDF	JB	7.76	10.9	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-004-SA6-SB-1.5-2.5	1,2,3,4,6,7,8-HPCDF	JB	2.86	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.490	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0871	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.199	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.722	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.143	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.249	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0347	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0272	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0840	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.181	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.120	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0138	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0152	1.03	PQL	ng/Kg	
	OCDF	JB	8.66	10.3	PQL	ng/Kg	
SL-011-SA6-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JB	1.77	5.27	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.324	5.27	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0846	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0570	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.165	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.197	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0916	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.157	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0612	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.118	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0907	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0810	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.371	5.27	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0383	1.05	PQL	ng/Kg	
	OCDF	JB	0.657	10.5	PQL	ng/Kg	
SL-185-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.411	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0610	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0534	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0172	5.72	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0240	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0521	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0204	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0612	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0932	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0146	5.72	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0223	5.72	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0216	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0530	5.72	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0159	1.14	PQL	ng/Kg	
	OCDD	JB	1.18	11.4	PQL	ng/Kg	
	OCDF	JBQ	0.194	11.4	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-185-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.436	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0605	5.71	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0455	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0288	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0143	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0141	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0348	5.71	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0383	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0205	5.71	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0136	5.71	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0127	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0385	5.71	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0114	1.14	PQL	ng/Kg	
	OCDD	JB	2.94	11.4	PQL	ng/Kg	
	OCDF	JB	0.303	11.4	PQL	ng/Kg	
SL-188-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.516	5.73	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.147	5.73	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0849	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.154	5.73	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.263	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.170	5.73	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.214	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.152	5.73	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.200	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.298	5.73	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.352	5.73	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.147	5.73	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.339	5.73	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0952	1.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.105	1.15	PQL	ng/Kg	
SL-188-SA5DN-SB-9.0-10.0	OCDD	JB	1.93	11.5	PQL	ng/Kg	J (all detects)
	OCDF	JB	0.295	11.5	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDD	JB	0.904	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.203	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0855	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.239	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.153	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.183	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.182	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.218	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.192	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.431	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.121	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.304	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0764	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.137	1.11	PQL	ng/Kg	
	OCDD	JB	6.68	11.1	PQL	ng/Kg	
	OCDF	JB	0.445	11.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-189-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.535	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0913	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0461	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0112	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0910	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0686	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0249	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.176	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.227	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0182	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.231	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0404	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.115	5.24	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0754	1.05	PQL	ng/Kg	
	OCDD	JB	2.91	10.5	PQL	ng/Kg	
	OCDF	JB	0.221	10.5	PQL	ng/Kg	
SL-189-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.36	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.261	5.67	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.133	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0690	5.67	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.295	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.120	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.129	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.146	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.177	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.120	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.643	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.138	5.67	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.237	5.67	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0229	1.13	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.188	1.13	PQL	ng/Kg	
	OCDD	JB	8.78	11.3	PQL	ng/Kg	
	OCDF	JB	0.717	11.3	PQL	ng/Kg	
SL-193-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.81	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.357	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.141	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.313	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.542	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.208	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.307	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.161	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.150	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.588	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.268	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.403	5.56	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0357	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.167	1.11	PQL	ng/Kg	
	OCDF	JB	8.65	11.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX124

Laboratory: LL

EDD Filename: DX124\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-193-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	5.16	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.806	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.134	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0462	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.153	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.220	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0868	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.127	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0417	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0374	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.136	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.104	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.195	5.57	PQL	ng/Kg	
	OCDF	JB	2.12	11.1	PQL	ng/Kg	
SL-204-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.02	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.600	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.129	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.115	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.453	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.291	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.165	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.437	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.404	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.173	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.516	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.168	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.394	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0495	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.171	1.10	PQL	ng/Kg	
	OCDF	JB	1.52	11.0	PQL	ng/Kg	
SL-204-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.688	5.85	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.134	5.85	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0672	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0929	5.85	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.150	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.146	5.85	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.104	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.233	5.85	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.311	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.154	5.85	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.248	5.85	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0769	5.85	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.195	5.85	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0436	1.17	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.0890	1.17	PQL	ng/Kg	
	OCDD	JB	4.26	11.7	PQL	ng/Kg	
	OCDF	JB	0.274	11.7	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX125**

## **Attachment I**

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



## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Aug-2011	SL-014-SA6-SB-4.0-5.0	6366548	N	METHOD	1613B	III
04-Aug-2011	SL-014-SA6-SB-9.0-10.0	6366549	N	METHOD	1613B	III
04-Aug-2011	SL-025-SA6-SB-4.0-5.0	6366556	N	METHOD	1613B	III
04-Aug-2011	SL-025-SA6-SB-9.0-10.0	6366557	N	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0	6366550	N	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MS	6366551	MS	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-4.0-5.0 MSD	6366552	MSD	METHOD	1613B	III
04-Aug-2011	DUP11-SA6-QC-080411	6366558	FD	METHOD	1613B	III
04-Aug-2011	SL-019-SA6-SB-9.0-10.0	6366553	N	METHOD	1613B	III
04-Aug-2011	SL-006-SA6-SB-4.0-5.0	6366546	N	METHOD	1613B	III
04-Aug-2011	SL-006-SA6-SB-9.0-10.0	6366547	N	METHOD	1613B	III
04-Aug-2011	SL-024-SA6-SB-4.0-5.0	6366554	N	METHOD	1613B	III
04-Aug-2011	SL-024-SA6-SB-9.0-10.0	6366555	N	METHOD	1613B	III
05-Aug-2011	SL-010-SA6-SB-4.0-5.0	6367765	N	METHOD	1613B	III
05-Aug-2011	SL-198-SA5DN-SB-4.0-5.0	6367772	N	METHOD	1613B	III
05-Aug-2011	SL-198-SA5DN-SB-9.0-10.0	6367773	N	METHOD	1613B	III
05-Aug-2011	SL-023-SA6-SB-0.0-1.0	6367767	N	METHOD	1613B	III
05-Aug-2011	SL-022-SA6-SB-0.0-1.0	6367766	N	METHOD	1613B	III
05-Aug-2011	SL-060-SA5DN-SB-4.0-5.0	6367770	N	METHOD	1613B	III
05-Aug-2011	SL-060-SA5DN-SB-7.0-8.0	6367771	N	METHOD	1613B	III
05-Aug-2011	SL-114-SA6-SB-4.0-5.0	6367768	N	METHOD	1613B	III
05-Aug-2011	SL-114-SA6-SB-9.0-10.0	6367769	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: DUP11-SA6-QC-080411

Collected: 8/4/2011 11:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.05	JB	0.113	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.270	JB	0.0981	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.928	J	0.0921	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HxCDD	2.23	J	0.101	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.798	J	0.0828	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HxCDD	0.602	JQ	0.0959	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.189	JBQ	0.0928	MDL	5.41	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.148	JQ	0.0803	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.755	JQ	0.0574	MDL	5.41	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HxCDF	0.967	JQ	0.0854	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.603	JBQ	0.0566	MDL	5.41	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.274	JQ	0.0996	MDL	1.08	PQL	ng/Kg	J	Z, FD
OCDD	1990	B	0.214	MDL	10.8	PQL	ng/Kg	J	FD
OCDF	25.2	B	0.0788	MDL	10.8	PQL	ng/Kg	J	FD

Sample ID: SL-006-SA6-SB-4.0-5.0

Collected: 8/4/2011 11:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.363	JB	0.0966	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0438	JBQ	0.0420	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0814	JQ	0.0432	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.0770	JQ	0.0570	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.0503	JBQ	0.0465	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0454	JBQ	0.0430	MDL	5.44	PQL	ng/Kg	U	B
OCDD	0.691	JB	0.0473	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.119	JBQ	0.0917	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-006-SA6-SB-9.0-10.0

Collected: 8/4/2011 11:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.488	JBQ	0.0768	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0850	JBQ	0.0277	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0465	JBQ	0.0457	MDL	5.63	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.253	JQ	0.0602	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0651	JQ	0.0408	MDL	5.63	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-006-SA6-SB-9.0-10.0

**Collected:** 8/4/2011 11:50:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.437	JQ	0.0584	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.588	JBQ	0.0484	MDL	5.63	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0975	JQ	0.0437	MDL	5.63	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0721	JBQ	0.0448	MDL	5.63	PQL	ng/Kg	U	B
OCDD	1.11	JB	0.0483	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.205	JBQ	0.0782	MDL	11.3	PQL	ng/Kg	U	B

**Sample ID:** SL-010-SA6-SB-4.0-5.0

**Collected:** 8/5/2011 8:05:00 AM

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.330	JB	0.0856	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0907	JBQ	0.0329	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0765	JQ	0.0611	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0506	JQ	0.0308	MDL	5.58	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0469	JBQ	0.0290	MDL	5.58	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0612	JQ	0.0441	MDL	5.58	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0482	JBQ	0.0419	MDL	5.58	PQL	ng/Kg	U	B
OCDD	1.09	JBQ	0.0707	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.106	JBQ	0.0906	MDL	11.2	PQL	ng/Kg	U	B

**Sample ID:** SL-014-SA6-SB-4.0-5.0

**Collected:** 8/4/2011 7:55:00 AM

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.09	JB	0.0578	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.920	JB	0.0909	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.452	JQ	0.0821	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.933	J	0.0997	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.311	JQ	0.0674	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.302	J	0.0960	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.101	JBQ	0.0559	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	1.67	JQ	0.0677	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.293	J	0.0716	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.268	JBQ	0.0652	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.185	JQ	0.150	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	9.75	JB	0.0863	MDL	11.0	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-014-SA6-SB-9.0-10.0

Collected: 8/4/2011 8:00:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.22	JBQ	0.132	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.188	JBQ	0.119	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.684	JQ	0.0989	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.00	J	0.126	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.354	J	0.0828	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.721	J	0.119	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.213	JBQ	0.0642	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.150	JQ	0.0930	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.843	JQ	0.0912	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.553	JQ	0.0849	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.383	JB	0.0855	MDL	5.50	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.356	JQ	0.183	MDL	1.10	PQL	ng/Kg	J	Z

Sample ID: SL-019-SA6-SB-4.0-5.0

Collected: 8/4/2011 11:05:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	1.79	C	0.0502	MDL	1.08	PQL	ng/Kg	J	FD

Sample ID: SL-019-SA6-SB-4.0-5.0

Collected: 8/4/2011 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.54	JB	0.0802	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.230	JBQ	0.0941	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	8.24		0.0919	MDL	5.41	PQL	ng/Kg	J	FD
1,2,3,6,7,8-HxCDD	1.79	J	0.0913	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.63	J	0.0838	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HxCDD	0.553	J	0.0898	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.717	JB	0.0709	MDL	5.41	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.170	JQ	0.0993	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.69	J	0.0839	MDL	5.41	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	1.52	J	0.0780	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	3.13	JB	0.0761	MDL	5.41	PQL	ng/Kg	J	Z, FD
OCDD	1060	B	0.142	MDL	10.8	PQL	ng/Kg	J	FD
OCDF	14.7	B	0.0664	MDL	10.8	PQL	ng/Kg	J	FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-019-SA6-SB-9.0-10.0

Collected: 8/4/2011 11:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.18	JB	0.0576	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.480	JBQ	0.0858	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.153	JBQ	0.0808	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.346	J	0.0765	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.650	J	0.0814	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.328	JQ	0.0675	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.300	JQ	0.0807	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JB	0.0591	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.338	JQ	0.0833	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.613	JQ	0.0602	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.370	J	0.0699	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.430	JBQ	0.0577	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.157	JQ	0.122	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.138	JQ	0.130	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	5.23	JB	0.0819	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-022-SA6-SB-0.0-1.0

Collected: 8/5/2011 10:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.48	JBQ	0.102	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.353	JQ	0.0763	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.322	JQ	0.0754	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0960	JQ	0.0878	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	4.68	J	0.138	MDL	5.23	PQL	ng/Kg	J	Z

Sample ID: SL-023-SA6-SB-0.0-1.0

Collected: 8/5/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.71	JB	0.0423	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.161	JBQ	0.0630	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0862	JBQ	0.0771	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.183	JQ	0.0568	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.282	JQ	0.0752	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.152	JQ	0.0459	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.252	JQ	0.0716	MDL	5.17	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-023-SA6-SB-0.0-1.0

Collected: 8/5/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.114	JQ	0.0669	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.522	J	0.0488	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.196	JQ	0.0567	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.198	JBQ	0.0465	MDL	5.17	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.106	JQ	0.100	MDL	1.03	PQL	ng/Kg	J	Z

Sample ID: SL-024-SA6-SB-4.0-5.0

Collected: 8/4/2011 2:50:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.355	JBQ	0.0619	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.108	JB	0.0250	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0710	JB	0.0326	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.169	JBQ	0.0502	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.158	JQ	0.0342	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.170	JQ	0.0517	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.209	J	0.0318	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.221	JQ	0.0501	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.184	JB	0.0303	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.317	JQ	0.0622	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.312	JQ	0.0386	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0956	JQ	0.0317	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.409	JB	0.0356	MDL	5.39	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.149	J	0.104	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.120	JQ	0.0810	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	1.21	JB	0.0457	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.228	JBQ	0.0652	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-024-SA6-SB-9.0-10.0

Collected: 8/4/2011 2:55:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.83	JB	0.0794	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.412	JB	0.0300	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0783	JBQ	0.0484	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.103	JBQ	0.0581	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.129	JQ	0.0594	MDL	5.52	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-024-SA6-SB-9.0-10.0

Collected: 8/4/2011 2:55:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0548	JQ	0.0368	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.110	JQ	0.0568	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0652	JBQ	0.0364	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0409	JQ	0.0364	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0827	JQ	0.0392	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.118	JBQ	0.0392	MDL	5.52	PQL	ng/Kg	U	B
OCDF	1.08	JB	0.0666	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-025-SA6-SB-4.0-5.0

Collected: 8/4/2011 9:00:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.349	JB	0.0672	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0725	JBQ	0.0238	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0477	JQ	0.0321	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0550	JBQ	0.0316	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0485	JQ	0.0413	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0753	JBQ	0.0373	MDL	5.32	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0981	JQ	0.0910	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	3.03	JB	0.0383	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.123	JBQ	0.0675	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-025-SA6-SB-9.0-10.0

Collected: 8/4/2011 9:05:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.348	JBQ	0.0683	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0625	JBQ	0.0305	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0394	JQ	0.0311	MDL	5.45	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0782	JQ	0.0489	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0667	JB	0.0357	MDL	5.45	PQL	ng/Kg	U	B
OCDD	0.822	JBQ	0.0476	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.158	JBQ	0.0661	MDL	10.9	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-060-SA5DN-SB-4.0-5.0

Collected: 8/5/2011 11:32:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.882	JBQ	0.0669	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JBQ	0.0191	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.111	JBQ	0.0357	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0699	JBQ	0.0505	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0990	J	0.0677	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.131	JQ	0.0477	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.108	JQ	0.0572	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.112	JQ	0.0457	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.155	JBQ	0.0583	MDL	5.03	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0977	JQ	0.0428	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.103	J	0.0618	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0635	JB	0.0440	MDL	5.03	PQL	ng/Kg	U	B
OCDD	9.27	JB	0.0567	MDL	10.1	PQL	ng/Kg	J	Z
OCDF	0.388	JBQ	0.0676	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-060-SA5DN-SB-7.0-8.0

Collected: 8/5/2011 1:05:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.529	JB	0.0693	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0815	JBQ	0.0237	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0646	JBQ	0.0410	MDL	5.72	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0519	JQ	0.0461	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.0781	JQ	0.0535	MDL	5.72	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.0929	JBQ	0.0405	MDL	5.72	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0891	JBQ	0.0427	MDL	5.72	PQL	ng/Kg	U	B
OCDD	4.62	JB	0.0424	MDL	11.4	PQL	ng/Kg	J	Z
OCDF	0.350	JBQ	0.0838	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-114-SA6-SB-4.0-5.0

Collected: 8/5/2011 3:05:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.443	JB	0.0714	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0830	JB	0.0256	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0852	JQ	0.0377	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.0925	J	0.0515	MDL	5.27	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-114-SA6-SB-4.0-5.0

Collected: 8/5/2011 3:05:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.0316	JQ	0.0305	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.187	J	0.0496	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0780	JBQ	0.0376	MDL	5.27	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.184	J	0.0731	MDL	5.27	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.167	JQ	0.0384	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0513	J	0.0352	MDL	5.27	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.160	JBQ	0.0377	MDL	5.27	PQL	ng/Kg	U	B
OCDD	0.935	JBQ	0.0571	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.156	JBQ	0.0858	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-114-SA6-SB-9.0-10.0

Collected: 8/5/2011 3:15:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.222	JB	0.0670	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0777	JBQ	0.0246	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0485	JBQ	0.0399	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0397	JQ	0.0310	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0860	J	0.0496	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0716	J	0.0268	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0595	JQ	0.0465	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0420	JBQ	0.0254	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0870	J	0.0647	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.199	JQ	0.0453	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0710	JQ	0.0264	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.101	JBQ	0.0447	MDL	5.50	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.110	JQ	0.0773	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.733	JBQ	0.0437	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.127	JBQ	0.0770	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-198-SA5DN-SB-4.0-5.0

Collected: 8/5/2011 8:49:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.13	JB	0.0392	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.111	JB	0.0760	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.222	JBQ	0.0738	MDL	5.80	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: SL-198-SA5DN-SB-4.0-5.0

Collected: 8/5/2011 8:49:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.211	JQ	0.0769	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.636	J	0.0755	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.147	JQ	0.0620	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.882	JQ	0.0738	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.982	JB	0.0757	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.130	J	0.0686	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.752	J	0.0430	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.140	J	0.0699	MDL	5.80	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.161	JBQ	0.0440	MDL	5.80	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.143	JQ	0.0879	MDL	1.16	PQL	ng/Kg	J	Z
OCDF	5.79	JB	0.0773	MDL	11.6	PQL	ng/Kg	J	Z

Sample ID: SL-198-SA5DN-SB-9.0-10.0

Collected: 8/5/2011 9:13:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.34	JB	0.0378	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.189	JBQ	0.0808	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0875	JQ	0.0564	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.200	JQ	0.0683	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0874	JQ	0.0438	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.194	JQ	0.0648	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.145	JQ	0.0502	MDL	5.33	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0592	JB	0.0357	MDL	5.33	PQL	ng/Kg	U	B
OCDF	4.33	JBQ	0.0921	MDL	10.7	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX125

Laboratory: LL

EDD Filename: DX125\_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: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX125



# Method Blank Outlier Report

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2300B371838	8/19/2011 6:38:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HXCDF 2,3,4,7,8-PECDF OCDD OCDF	0.238 ng/Kg 0.0694 ng/Kg 0.0615 ng/Kg 0.103 ng/Kg 0.0418 ng/Kg 0.0660 ng/Kg 0.596 ng/Kg 0.136 ng/Kg	DUP11-SA6-QC-080411 SL-006-SA6-SB-4.0-5.0 SL-006-SA6-SB-9.0-10.0 SL-010-SA6-SB-4.0-5.0 SL-014-SA6-SB-4.0-5.0 SL-014-SA6-SB-9.0-10.0 SL-019-SA6-SB-4.0-5.0 SL-019-SA6-SB-9.0-10.0 SL-022-SA6-SB-0.0-1.0 SL-023-SA6-SB-0.0-1.0 SL-024-SA6-SB-4.0-5.0 SL-024-SA6-SB-9.0-10.0 SL-025-SA6-SB-4.0-5.0 SL-025-SA6-SB-9.0-10.0 SL-060-SA5DN-SB-4.0-5.0 SL-060-SA5DN-SB-7.0-8.0 SL-114-SA6-SB-4.0-5.0 SL-114-SA6-SB-9.0-10.0 SL-198-SA5DN-SB-4.0-5.0 SL-198-SA5DN-SB-9.0-10.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP11-SA6-QC-080411(RES)	1,2,3,4,7,8-HxCDD	0.270 ng/Kg	0.270U ng/Kg
DUP11-SA6-QC-080411(RES)	1,2,3,7,8,9-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.363 ng/Kg	0.363U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0438 ng/Kg	0.0438U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0503 ng/Kg	0.0503U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0454 ng/Kg	0.0454U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	OCDD	0.691 ng/Kg	0.691U ng/Kg
SL-006-SA6-SB-4.0-5.0(RES)	OCDF	0.119 ng/Kg	0.119U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.488 ng/Kg	0.488U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0850 ng/Kg	0.0850U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0465 ng/Kg	0.0465U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0721 ng/Kg	0.0721U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	OCDD	1.11 ng/Kg	1.11U ng/Kg
SL-006-SA6-SB-9.0-10.0(RES)	OCDF	0.205 ng/Kg	0.205U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.330 ng/Kg	0.330U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0907 ng/Kg	0.0907U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0469 ng/Kg	0.0469U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0482 ng/Kg	0.0482U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg
SL-010-SA6-SB-4.0-5.0(RES)	OCDF	0.106 ng/Kg	0.106U ng/Kg
SL-014-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-014-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.268 ng/Kg	0.268U ng/Kg
SL-014-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.188 ng/Kg	0.188U ng/Kg
SL-019-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.230 ng/Kg	0.230U ng/Kg
SL-019-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.153 ng/Kg	0.153U ng/Kg
SL-019-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-023-SA6-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.161 ng/Kg	0.161U ng/Kg

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: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-023-SA6-SB-0.0-1.0(RES)	1,2,3,4,7,8-HxCDD	0.0862 ng/Kg	0.0862U ng/Kg
SL-023-SA6-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.198 ng/Kg	0.198U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.355 ng/Kg	0.355U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0710 ng/Kg	0.0710U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.169 ng/Kg	0.169U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.184 ng/Kg	0.184U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-024-SA6-SB-4.0-5.0(RES)	OCDF	0.228 ng/Kg	0.228U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0783 ng/Kg	0.0783U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.103 ng/Kg	0.103U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0652 ng/Kg	0.0652U ng/Kg
SL-024-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.118 ng/Kg	0.118U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.349 ng/Kg	0.349U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0725 ng/Kg	0.0725U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0753 ng/Kg	0.0753U ng/Kg
SL-025-SA6-SB-4.0-5.0(RES)	OCDF	0.123 ng/Kg	0.123U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.348 ng/Kg	0.348U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0667 ng/Kg	0.0667U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	OCDD	0.822 ng/Kg	0.822U ng/Kg
SL-025-SA6-SB-9.0-10.0(RES)	OCDF	0.158 ng/Kg	0.158U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.882 ng/Kg	0.882U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0699 ng/Kg	0.0699U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.155 ng/Kg	0.155U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0635 ng/Kg	0.0635U ng/Kg
SL-060-SA5DN-SB-4.0-5.0(RES)	OCDF	0.388 ng/Kg	0.388U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.529 ng/Kg	0.529U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0815 ng/Kg	0.0815U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0646 ng/Kg	0.0646U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	1,2,3,7,8,9-HXCDF	0.0929 ng/Kg	0.0929U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0891 ng/Kg	0.0891U ng/Kg
SL-060-SA5DN-SB-7.0-8.0(RES)	OCDF	0.350 ng/Kg	0.350U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.443 ng/Kg	0.443U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0830 ng/Kg	0.0830U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0780 ng/Kg	0.0780U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.160 ng/Kg	0.160U ng/Kg

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-114-SA6-SB-4.0-5.0(RES)	OCDD	0.935 ng/Kg	0.935U ng/Kg
SL-114-SA6-SB-4.0-5.0(RES)	OCDF	0.156 ng/Kg	0.156U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.222 ng/Kg	0.222U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0777 ng/Kg	0.0777U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.101 ng/Kg	0.101U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	OCDD	0.733 ng/Kg	0.733U ng/Kg
SL-114-SA6-SB-9.0-10.0(RES)	OCDF	0.127 ng/Kg	0.127U ng/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.111 ng/Kg	0.111U ng/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.222 ng/Kg	0.222U ng/Kg
SL-198-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.161 ng/Kg	0.161U ng/Kg
SL-198-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.189 ng/Kg	0.189U ng/Kg
SL-198-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0592 ng/Kg	0.0592U ng/Kg

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B

**Matrix:** SO

<i>QC Sample ID (Associated Samples)</i>	<i>Compound</i>	<i>MS %R</i>	<i>MSD %R</i>	<i>%R Limits</i>	<i>RPD (Limits)</i>	<i>Affected Compounds</i>	<i>Flag</i>
SL-019-SA6-SB-4.0-5.0 MS SL-019-SA6-SB-4.0-5.0 MSD (SL-019-SA6-SB-4.0-5.0)	OCDD	185	301	40.00-135.00	-	OCDD	No Qual, >4x

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
MOISTURE	8.8	8.4	5		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-019-SA6-SB-4.0-5.0	DUP11-SA6-QC-080411			
1,2,3,4,6,7,8-HPCDD	59.5	84.1	34	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	10.1	11.2	10	50.00	
1,2,3,4,7,8,9-HPCDF	1.54	2.05	28	50.00	
1,2,3,4,7,8-HxCDD	0.230	0.270	16	50.00	
1,2,3,6,7,8-HxCDD	1.79	2.23	22	50.00	
1,2,3,7,8,9-HxCDD	0.553	0.602	8	50.00	
1,2,3,7,8-PECDD	0.170	0.148	14	50.00	
2,3,4,6,7,8-HxCDF	1.52	0.967	44	50.00	
1,2,3,4,7,8-HxCDF	8.24	0.928	160	50.00	J(all detects)
1,2,3,6,7,8-HxCDF	2.63	0.798	107	50.00	
1,2,3,7,8,9-HxCDF	0.717	0.189	117	50.00	
1,2,3,7,8-PECDF	1.69	0.755	76	50.00	
2,3,4,7,8-PECDF	3.13	0.603	135	50.00	
2,3,7,8-TCDF	1.79	0.274	147	50.00	
OCDD	1060	1990	61	50.00	
OCDF	14.7	25.2	53	50.00	

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# Reporting Limit Outliers

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP11-SA6-QC-080411	1,2,3,4,7,8,9-HPCDF	JB	2.05	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.270	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.928	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	2.23	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.798	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.602	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.189	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.148	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.755	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.967	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.603	5.41	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.274	1.08	PQL	ng/Kg	
SL-006-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.363	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0438	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0814	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.0770	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0503	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0454	5.44	PQL	ng/Kg	
	OCDD	JB	0.691	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.119	10.9	PQL	ng/Kg	
SL-006-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.488	5.63	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0850	5.63	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0465	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.253	5.63	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0651	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.437	5.63	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.588	5.63	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0975	5.63	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0721	5.63	PQL	ng/Kg	
	OCDD	JB	1.11	11.3	PQL	ng/Kg	
	OCDF	JBQ	0.205	11.3	PQL	ng/Kg	
SL-010-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.330	5.58	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0907	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.0765	5.58	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0506	5.58	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0469	5.58	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0612	5.58	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0482	5.58	PQL	ng/Kg	
	OCDD	JBQ	1.09	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.106	11.2	PQL	ng/Kg	
SL-014-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.09	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.920	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.452	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.933	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.311	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	0.302	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.101	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	1.67	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.293	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.268	5.51	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.185	1.10	PQL	ng/Kg	
	OCDF	JB	9.75	11.0	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JBQ	1.22	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.188	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.684	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	2.00	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.354	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	0.721	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.213	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.150	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.843	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.553	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.383	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.356	1.10	PQL	ng/Kg	
SL-019-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.54	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.230	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	1.79	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	2.63	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	0.553	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.717	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.170	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.69	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	1.52	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	3.13	5.41	PQL	ng/Kg	
SL-019-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	2.18	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.480	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.153	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.346	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.650	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.328	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.300	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.120	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.338	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.613	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.370	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.430	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.157	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.138	1.10	PQL	ng/Kg	
	OCDF	JB	5.23	11.0	PQL	ng/Kg	
SL-022-SA6-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JBQ	3.48	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,6,7,8-HxCDD	JQ	0.353	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.322	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0960	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	4.68	5.23	PQL	ng/Kg	
SL-023-SA6-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDF	JB	2.71	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.161	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0862	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.183	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.282	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.152	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.252	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.114	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.522	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.196	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.198	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.106	1.03	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-024-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.355	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.108	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0710	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.169	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.158	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.170	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.209	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.221	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.184	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.317	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.312	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0956	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.409	5.39	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.149	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.120	1.08	PQL	ng/Kg	
	OCDD	JB	1.21	10.8	PQL	ng/Kg	
	OCDF	JBQ	0.228	10.8	PQL	ng/Kg	
SL-024-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	2.83	5.52	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.412	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0783	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.103	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.129	5.52	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0548	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.110	5.52	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0652	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0409	5.52	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0827	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.118	5.52	PQL	ng/Kg	
	OCDF	JB	1.08	11.0	PQL	ng/Kg	
SL-025-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.349	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0725	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0477	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0550	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0485	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0753	5.32	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0981	1.06	PQL	ng/Kg	
	OCDD	JB	3.03	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.123	10.6	PQL	ng/Kg	
SL-025-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.348	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0625	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0394	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.0782	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0667	5.45	PQL	ng/Kg	
	OCDD	JBQ	0.822	10.9	PQL	ng/Kg	
	OCDF	JBQ	0.158	10.9	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-060-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.882	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.166	5.03	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.111	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0699	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	J	0.0990	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.131	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JQ	0.108	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.112	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.155	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0977	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	J	0.103	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0635	5.03	PQL	ng/Kg	
	OCDD	JB	9.27	10.1	PQL	ng/Kg	
	OCDF	JBQ	0.388	10.1	PQL	ng/Kg	
SL-060-SA5DN-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.529	5.72	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0815	5.72	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0646	5.72	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JQ	0.0519	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.0781	5.72	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0929	5.72	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0891	5.72	PQL	ng/Kg	
	OCDD	JB	4.62	11.4	PQL	ng/Kg	
SL-114-SA6-SB-4.0-5.0	OCDF	JBQ	0.350	11.4	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDD	JB	0.443	5.27	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0830	5.27	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JQ	0.0852	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.0925	5.27	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JQ	0.0316	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	0.187	5.27	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0780	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.184	5.27	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.167	5.27	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	J	0.0513	5.27	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.160	5.27	PQL	ng/Kg	
	OCDD	JBQ	0.935	10.5	PQL	ng/Kg	
	OCDF	JBQ	0.156	10.5	PQL	ng/Kg	
SL-114-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.222	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0777	5.50	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0485	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JQ	0.0397	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.0860	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	J	0.0716	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.0595	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0420	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0870	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.199	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JQ	0.0710	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.101	5.50	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.110	1.10	PQL	ng/Kg	
	OCDD	JBQ	0.733	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.127	11.0	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX125

Laboratory: LL

EDD Filename: DX125\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.13	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.111	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.222	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.211	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.636	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.147	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.882	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.982	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.130	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.752	5.80	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.140	5.80	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.161	5.80	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.143	1.16	PQL	ng/Kg	
	OCDF	JB	5.79	11.6	PQL	ng/Kg	
SL-198-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.34	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.189	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0875	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.200	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0874	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.194	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.145	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0592	5.33	PQL	ng/Kg	
	OCDF	JBQ	4.33	10.7	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX126**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
08-Aug-2011	SL-273-SA6-SB-4.0-5.0	6369644	N	METHOD	1613B	IV
08-Aug-2011	SL-273-SA6-SB-9.0-10.0	6369645	N	METHOD	1613B	IV
08-Aug-2011	SL-153-SA5DN-SB-4.0-5.0	6369642	N	METHOD	1613B	IV
08-Aug-2011	SL-153-SA5DN-SB-7.0-8.0	6369643	N	METHOD	1613B	IV
08-Aug-2011	SL-083-SA5DN-SB-4.0-5.0	6369641	N	METHOD	1613B	IV
08-Aug-2011	SL-031-SA6-SB-4.0-5.0	6369646	N	METHOD	1613B	IV
08-Aug-2011	SL-031-SA6-SB-9.0-10.0	6369647	N	METHOD	1613B	IV
09-Aug-2011	SL-044-SA6-SB-2.5-3.5	6371379	N	METHOD	1613B	IV
09-Aug-2011	SL-012-SA5DN-SB-4.0-5.0	6371383	N	METHOD	1613B	IV
09-Aug-2011	SL-012-SA5DN-SB-9.0-10.0	6371384	N	METHOD	1613B	IV
09-Aug-2011	SL-042-SA6-SB-2.5-3.5	6371378	N	METHOD	1613B	IV
09-Aug-2011	SL-011-SA5DN-SB-4.0-5.0	6371382	N	METHOD	1613B	IV
09-Aug-2011	EB-SA6-SB-080911	6371381	EB	METHOD	1613B	IV
09-Aug-2011	SL-049-SA6-SB-2.5-3.5	6371380	N	METHOD	1613B	IV
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0	6371385	N	METHOD	1613B	IV
09-Aug-2011	SL-009-SA5DN-SB-4.0-5.0MS	6371386	MS	METHOD	1613B	IV
09-Aug-2011	DUP24-SA5DN-QC-080911	6371389	FD	METHOD	1613B	IV
09-Aug-2011	SL-009-SA5DN-SB-9.0-10.0	6371388	N	METHOD	1613B	IV

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>AQ</b>

Sample ID: EB-SA6-SB-080911

Collected: 8/9/2011 1:00:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.38	JB	0.137	MDL	9.59	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.650	JB	0.0665	MDL	9.59	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.550	JBQ	0.0789	MDL	9.59	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.216	JBQ	0.0682	MDL	9.59	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.366	JBQ	0.116	MDL	9.59	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.223	JBQ	0.0665	MDL	9.59	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.452	JBQ	0.115	MDL	9.59	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.238	JBQ	0.115	MDL	9.59	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.163	JBQ	0.0657	MDL	9.59	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.162	JBQ	0.0603	MDL	9.59	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.292	JBQ	0.0549	MDL	9.59	PQL	pg/L	U	B
2,3,7,8-TCDD	0.344	JBQ	0.112	MDL	1.92	PQL	pg/L	U	B
OCDD	7.99	JBQ	0.139	MDL	19.2	PQL	pg/L	U	B
OCDF	1.02	JB	0.121	MDL	19.2	PQL	pg/L	U	B

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP24-SA5DN-QC-080911

Collected: 8/9/2011 3:28:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.699	JB	0.0455	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JB	0.0220	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0441	JBQ	0.0279	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0520	JQ	0.0365	MDL	5.51	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	0.0763	JBQ	0.0255	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HXCDD	0.0589	JBQ	0.0366	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0357	JBQ	0.0231	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDD	0.0440	JB	0.0355	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0396	JQ	0.0195	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.140	JBQ	0.0519	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0543	JQ	0.0257	MDL	5.51	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.0279	JBQ	0.0201	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.121	JQ	0.0258	MDL	5.51	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: DUP24-SA5DN-QC-080911

Collected: 8/9/2011 3:28:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	4.76	JB	0.0378	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.273	JQ	0.0532	MDL	11.0	PQL	ng/Kg	J	Z, FD

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.555	JBQ	0.0646	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0752	JB	0.0263	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0371	U	0.0371	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HxCDD	0.0410	U	0.0410	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HxCDF	0.0284	U	0.0284	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HxCDD	0.0715	JBQ	0.0427	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0234	U	0.0234	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,7,8,9-HxCDD	0.0813	JB	0.0427	MDL	5.51	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDF	0.0413	J	0.0222	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0639	U	0.0639	MDL	5.51	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.125	JQ	0.0371	MDL	5.51	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HxCDF	0.0278	JBQ	0.0224	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.100	J	0.0360	MDL	5.51	PQL	ng/Kg	J	Z
OCDD	4.04	JB	0.0486	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.140	JQ	0.0598	MDL	11.0	PQL	ng/Kg	J	Z, FD

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.08	JBQ	0.0626	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.187	JBQ	0.0296	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.127	JQ	0.0408	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.135	JB	0.0317	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.194	JBQ	0.0401	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.129	JB	0.0413	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0954	JQ	0.0253	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.277	JB	0.0557	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.221	JQ	0.0311	MDL	5.56	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.142	JBQ	0.0245	MDL	5.56	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.186	J	0.0277	MDL	5.56	PQL	ng/Kg	J	Z
OCDD	9.81	JB	0.0374	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.381	J	0.0506	MDL	11.1	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.429	JB	0.0674	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0885	JBQ	0.0261	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0521	JQ	0.0507	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.0755	JBQ	0.0494	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0752	JBQ	0.0478	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0395	JBQ	0.0287	MDL	5.60	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0642	JQ	0.0344	MDL	5.60	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.105	J	0.102	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	3.03	JB	0.0524	MDL	11.2	PQL	ng/Kg	J	Z
OCDF	0.225	JQ	0.0789	MDL	11.2	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.13	JB	0.0689	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.148	JB	0.0320	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.102	JB	0.0456	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.108	JBQ	0.0445	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.104	JQ	0.0308	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0749	JBQ	0.0631	MDL	5.04	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0624	JQ	0.0356	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0374	JQ	0.0343	MDL	5.04	PQL	ng/Kg	J	Z
OCDD	8.10	JB	0.0548	MDL	10.1	PQL	ng/Kg	J	Z
OCDF	0.534	J	0.0791	MDL	10.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-012-SA5DN-SB-9.0-10.0

Collected: 8/9/2011 9:30:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.913	JB	0.0508	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.110	JB	0.0221	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0600	JBQ	0.0364	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0380	JBQ	0.0287	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0236	JBQ	0.0236	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0566	JBQ	0.0387	MDL	5.80	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0363	JQ	0.0274	MDL	5.80	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0404	JQ	0.0328	MDL	5.80	PQL	ng/Kg	J	Z
OCDD	6.21	JB	0.0457	MDL	11.6	PQL	ng/Kg	J	Z
OCDF	0.182	JQ	0.0643	MDL	11.6	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.459	JBQ	0.0648	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.209	JBQ	0.0230	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0388	JB	0.0364	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0585	JQ	0.0531	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.106	JBQ	0.0472	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.197	JBQ	0.0537	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.101	JBQ	0.0398	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.316	JBQ	0.0510	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.232	J	0.0400	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.155	JBQ	0.0731	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.273	JQ	0.0410	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0634	JB	0.0357	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.216	J	0.0411	MDL	5.28	PQL	ng/Kg	J	Z
OCDD	2.31	JB	0.0460	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.448	JQ	0.0752	MDL	10.6	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.321	JBQ	0.0577	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0700	JBQ	0.0202	MDL	5.44	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0586	JB	0.0317	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.189	JBQ	0.0413	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.227	JB	0.0420	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.190	JBQ	0.0338	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.282	JBQ	0.0406	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.224	J	0.0310	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.333	JB	0.0681	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.300	J	0.0364	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0811	JBQ	0.0300	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.280	JQ	0.0368	MDL	5.44	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0974	JQ	0.0824	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	1.45	JB	0.0385	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.145	J	0.0581	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-042-SA6-SB-2.5-3.5

Collected: 8/9/2011 9:56:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.451	JBQ	0.0504	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0336	JBQ	0.0252	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.305	JBQ	0.0497	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0525	JBQ	0.0328	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.938	JB	0.0485	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.231	J	0.0262	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.134	JB	0.0759	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.117	J	0.0347	MDL	5.28	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0338	JBQ	0.0242	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0695	JQ	0.0345	MDL	5.28	PQL	ng/Kg	J	Z
OCDD	1.71	JBQ	0.0367	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.152	J	0.0654	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-044-SA6-SB-2.5-3.5

Collected: 8/9/2011 8:09:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.73	JB	0.0571	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0642	JBQ	0.0572	MDL	5.93	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-044-SA6-SB-2.5-3.5

Collected: 8/9/2011 8:09:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.221	JBQ	0.0912	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.626	JB	0.0731	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.160	JBQ	0.0721	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.420	JBQ	0.0701	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.122	JBQ	0.0700	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0862	JQ	0.0370	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.177	JBQ	0.0384	MDL	5.93	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0891	J	0.0342	MDL	5.93	PQL	ng/Kg	J	Z
OCDF	2.00	J	0.0700	MDL	11.9	PQL	ng/Kg	J	Z

Sample ID: SL-049-SA6-SB-2.5-3.5

Collected: 8/9/2011 2:15:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.596	JBQ	0.0565	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0463	JB	0.0213	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.153	JBQ	0.0492	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0324	JBQ	0.0274	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.318	JB	0.0467	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0880	JQ	0.0296	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0684	JBQ	0.0615	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0455	J	0.0336	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0657	JQ	0.0326	MDL	5.34	PQL	ng/Kg	J	Z
OCDD	1.49	JBQ	0.0521	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.126	J	0.0722	MDL	10.7	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.91	JB	0.0637	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.190	JB	0.0151	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0449	JQ	0.0342	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0584	JQ	0.0424	MDL	5.56	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0504	JBQ	0.0251	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.191	JBQ	0.0445	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.231	JBQ	0.0444	MDL	5.56	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDF	0.0701	JBQ	0.0314	MDL	5.56	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.111	JBQ	0.0298	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0369	JBQ	0.0237	MDL	5.56	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0869	JBQ	0.0288	MDL	5.56	PQL	ng/Kg	U	B
OCDF	0.751	J	0.0753	MDL	11.1	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.195	JB	0.0709	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0366	JBQ	0.0313	MDL	5.67	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.271	JBQ	0.0578	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.383	JBQ	0.0555	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.849	J	0.0380	MDL	5.67	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.109	J	0.0475	MDL	5.67	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0387	JBQ	0.0373	MDL	5.67	PQL	ng/Kg	U	B
OCDD	0.939	JB	0.0493	MDL	11.3	PQL	ng/Kg	U	B

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.344	JB	0.0541	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0684	JBQ	0.0206	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0970	JQ	0.0529	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0418	JBQ	0.0386	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0802	JBQ	0.0517	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.149	JQ	0.0273	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0512	JQ	0.0371	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0619	J	0.0371	MDL	5.55	PQL	ng/Kg	J	Z
OCDD	0.999	JB	0.0421	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.141	JQ	0.0637	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-273-SA6-SB-4.0-5.0

Collected: 8/8/2011 8:20:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.402	JB	0.0617	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0392	JB	0.0244	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0470	JBQ	0.0338	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0695	JBQ	0.0496	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0470	JBQ	0.0274	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0550	JQ	0.0285	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0845	JQ	0.0398	MDL	5.25	PQL	ng/Kg	J	Z
OCDD	0.616	JBQ	0.0383	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.183	JQ	0.0677	MDL	10.5	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.478	JB	0.0663	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.131	JBQ	0.0247	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0495	JB	0.0352	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.109	JBQ	0.0541	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0856	JBQ	0.0370	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.226	JBQ	0.0528	MDL	5.65	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.129	J	0.0353	MDL	5.65	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0992	JQ	0.0389	MDL	5.65	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0332	JBQ	0.0296	MDL	5.65	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0772	JQ	0.0389	MDL	5.65	PQL	ng/Kg	J	Z
OCDD	1.09	JBQ	0.0381	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.228	JQ	0.0748	MDL	11.3	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX126

Laboratory: LL

EDD Filename: DX126\_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: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX126

# Method Blank Outlier Report

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2240B371404	8/16/2011 2:04:00 PM	1,2,3,4,6,7,8-HPCDD 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	3.99 pg/L 0.817 pg/L 0.551 pg/L 0.200 pg/L 0.405 pg/L 0.373 pg/L 0.218 pg/L 0.458 pg/L 0.595 pg/L 0.437 pg/L 0.280 pg/L 0.268 pg/L 0.450 pg/L 0.457 pg/L 0.139 pg/L 8.97 pg/L 1.57 pg/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)	1,2,3,4,6,7,8-HPCDD	4.38 pg/L	4.38U pg/L
EB-SA6-SB-080911(RES)	1,2,3,4,6,7,8-HPCDF	0.650 pg/L	0.650U pg/L
EB-SA6-SB-080911(RES)	1,2,3,4,7,8,9-HPCDF	0.550 pg/L	0.550U pg/L
EB-SA6-SB-080911(RES)	1,2,3,4,7,8-HxCDF	0.216 pg/L	0.216U pg/L
EB-SA6-SB-080911(RES)	1,2,3,6,7,8-HxCDD	0.366 pg/L	0.366U pg/L
EB-SA6-SB-080911(RES)	1,2,3,6,7,8-HxCDF	0.223 pg/L	0.223U pg/L
EB-SA6-SB-080911(RES)	1,2,3,7,8,9-HxCDD	0.452 pg/L	0.452U pg/L
EB-SA6-SB-080911(RES)	1,2,3,7,8-PECDD	0.238 pg/L	0.238U pg/L
EB-SA6-SB-080911(RES)	1,2,3,7,8-PECDF	0.163 pg/L	0.163U pg/L
EB-SA6-SB-080911(RES)	2,3,4,6,7,8-HxCDF	0.162 pg/L	0.162U pg/L
EB-SA6-SB-080911(RES)	2,3,4,7,8-PECDF	0.292 pg/L	0.292U pg/L
EB-SA6-SB-080911(RES)	2,3,7,8-TCDD	0.344 pg/L	0.344U pg/L
EB-SA6-SB-080911(RES)	OCDD	7.99 pg/L	7.99U pg/L
EB-SA6-SB-080911(RES)	OCDF	1.02 pg/L	1.02U pg/L

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2310B371554	8/22/2011 3:54:00 PM	1,2,3,4,6,7,8-HPCDD 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-PECDD 2,3,4,6,7,8-HxCDF OCDD	0.206 ng/Kg 0.0461 ng/Kg 0.0425 ng/Kg 0.0624 ng/Kg 0.0497 ng/Kg 0.0816 ng/Kg 0.0511 ng/Kg 0.0911 ng/Kg 0.0440 ng/Kg 0.280 ng/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-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5 SL-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

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: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2380B370305	8/30/2011 3:05:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-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	0.236 ng/Kg 0.0494 ng/Kg 0.0519 ng/Kg 0.0513 ng/Kg 0.0537 ng/Kg 0.0428 ng/Kg 0.0356 ng/Kg 0.0682 ng/Kg 0.0365 ng/Kg 0.0234 ng/Kg 0.0544 ng/Kg 0.426 ng/Kg	SL-083-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-SA5DN-QC-080911(RES)	1,2,3,4,6,7,8-HPCDD	0.699 ng/Kg	0.699U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,7,8,9-HPCDF	0.0441 ng/Kg	0.0441U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,4,7,8-HXCDF	0.0763 ng/Kg	0.0763U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,6,7,8-HXCDD	0.0589 ng/Kg	0.0589U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,6,7,8-HXCDF	0.0357 ng/Kg	0.0357U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,7,8,9-HXCDD	0.0440 ng/Kg	0.0440U ng/Kg
DUP24-SA5DN-QC-080911(RES)	1,2,3,7,8-PECDD	0.140 ng/Kg	0.140U ng/Kg
DUP24-SA5DN-QC-080911(RES)	2,3,4,6,7,8-HXCDF	0.0279 ng/Kg	0.0279U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.555 ng/Kg	0.555U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0752 ng/Kg	0.0752U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0715 ng/Kg	0.0715U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0813 ng/Kg	0.0813U ng/Kg
SL-009-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0278 ng/Kg	0.0278U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.187 ng/Kg	0.187U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.194 ng/Kg	0.194U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.129 ng/Kg	0.129U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.277 ng/Kg	0.277U ng/Kg
SL-009-SA5DN-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.429 ng/Kg	0.429U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0885 ng/Kg	0.0885U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0755 ng/Kg	0.0755U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0752 ng/Kg	0.0752U ng/Kg
SL-011-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0395 ng/Kg	0.0395U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.148 ng/Kg	0.148U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.108 ng/Kg	0.108U ng/Kg
SL-012-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.913 ng/Kg	0.913U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.110 ng/Kg	0.110U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0600 ng/Kg	0.0600U ng/Kg

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: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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(RES)	1,2,3,4,7,8-HXCDF	0.0380 ng/Kg	0.0380U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0236 ng/Kg	0.0236U ng/Kg
SL-012-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0566 ng/Kg	0.0566U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.459 ng/Kg	0.459U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.209 ng/Kg	0.209U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0388 ng/Kg	0.0388U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.197 ng/Kg	0.197U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.155 ng/Kg	0.155U ng/Kg
SL-031-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0634 ng/Kg	0.0634U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.321 ng/Kg	0.321U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0700 ng/Kg	0.0700U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0586 ng/Kg	0.0586U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.227 ng/Kg	0.227U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.190 ng/Kg	0.190U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.333 ng/Kg	0.333U ng/Kg
SL-031-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.451 ng/Kg	0.451U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0336 ng/Kg	0.0336U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0525 ng/Kg	0.0525U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.134 ng/Kg	0.134U ng/Kg
SL-042-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0338 ng/Kg	0.0338U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0642 ng/Kg	0.0642U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.221 ng/Kg	0.221U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.160 ng/Kg	0.160U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.122 ng/Kg	0.122U ng/Kg
SL-044-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.177 ng/Kg	0.177U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.596 ng/Kg	0.596U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDD	0.153 ng/Kg	0.153U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0324 ng/Kg	0.0324U ng/Kg
SL-049-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0684 ng/Kg	0.0684U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.190 ng/Kg	0.190U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0504 ng/Kg	0.0504U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.191 ng/Kg	0.191U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0701 ng/Kg	0.0701U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.111 ng/Kg	0.111U ng/Kg
SL-083-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0369 ng/Kg	0.0369U ng/Kg

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: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-083-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.195 ng/Kg	0.195U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0366 ng/Kg	0.0366U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0387 ng/Kg	0.0387U ng/Kg
SL-153-SA5DN-SB-4.0-5.0(RES)	OCDD	0.939 ng/Kg	0.939U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDD	0.344 ng/Kg	0.344U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0684 ng/Kg	0.0684U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,4,7,8-HXCDF	0.0418 ng/Kg	0.0418U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	1,2,3,6,7,8-HXCDD	0.0802 ng/Kg	0.0802U ng/Kg
SL-153-SA5DN-SB-7.0-8.0(RES)	OCDD	0.999 ng/Kg	0.999U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.402 ng/Kg	0.402U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0392 ng/Kg	0.0392U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0695 ng/Kg	0.0695U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0470 ng/Kg	0.0470U ng/Kg
SL-273-SA6-SB-4.0-5.0(RES)	OCDD	0.616 ng/Kg	0.616U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.478 ng/Kg	0.478U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.131 ng/Kg	0.131U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.109 ng/Kg	0.109U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0856 ng/Kg	0.0856U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.226 ng/Kg	0.226U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0332 ng/Kg	0.0332U ng/Kg
SL-273-SA6-SB-9.0-10.0(RES)	OCDD	1.09 ng/Kg	1.09U ng/Kg

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

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

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
1,2,3,4,6,7,8-HPCDD	0.555	0.699	23	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.0752	0.122	47	50.00	
1,2,3,6,7,8-HXCDD	0.0715	0.0589	19	50.00	
1,2,3,7,8,9-HXCDF	0.0413	0.0396	4	50.00	
2,3,4,6,7,8-HXCDF	0.0278	0.0279	0	50.00	
2,3,4,7,8-PECDF	0.100	0.121	19	50.00	
OCDD	4.04	4.76	16	50.00	
1,2,3,4,7,8,9-HPCDF	5.51 U	0.0441	200	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HxCDD	5.51 U	0.0520	200	50.00	
1,2,3,4,7,8-HXCDF	5.51 U	0.0763	200	50.00	
1,2,3,6,7,8-HXCDF	5.51 U	0.0357	200	50.00	
1,2,3,7,8,9-HXCDD	0.0813	0.0440	60	50.00	
1,2,3,7,8-PECDD	5.51 U	0.140	200	50.00	
1,2,3,7,8-PECDF	0.125	0.0543	79	50.00	
OCDF	0.140	0.273	64	50.00	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-080911	1,2,3,4,6,7,8-HPCDD	JB	4.38	9.59	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.650	9.59	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.550	9.59	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.216	9.59	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.366	9.59	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.223	9.59	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.452	9.59	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.238	9.59	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.163	9.59	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.162	9.59	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.292	9.59	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.344	1.92	PQL	pg/L	
	OCDD	JBQ	7.99	19.2	PQL	pg/L	
	OCDF	JB	1.02	19.2	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA5DN-QC-080911	1,2,3,4,6,7,8-HPCDD	JB	0.699	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.122	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0441	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0520	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0763	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0589	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0357	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0440	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0396	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.140	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0543	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0279	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.121	5.51	PQL	ng/Kg	
	OCDD	JB	4.76	11.0	PQL	ng/Kg	
	OCDF	JQ	0.273	11.0	PQL	ng/Kg	
SL-009-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.555	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0752	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0715	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0813	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0413	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.125	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0278	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.100	5.51	PQL	ng/Kg	
	OCDD	JB	4.04	11.0	PQL	ng/Kg	
	OCDF	JQ	0.140	11.0	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-009-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	1.08	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.187	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.127	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.135	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.194	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.129	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JQ	0.0954	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.277	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.221	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.142	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.186	5.56	PQL	ng/Kg	
	OCDD	JB	9.81	11.1	PQL	ng/Kg	
	OCDF	J	0.381	11.1	PQL	ng/Kg	
SL-011-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.429	5.60	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0885	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0521	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0755	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0752	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0395	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0642	5.60	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.105	1.12	PQL	ng/Kg	
	OCDD	JB	3.03	11.2	PQL	ng/Kg	
	OCDF	JQ	0.225	11.2	PQL	ng/Kg	
SL-012-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.13	5.04	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.148	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.102	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.108	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JQ	0.104	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0749	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0624	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0374	5.04	PQL	ng/Kg	
	OCDD	JB	8.10	10.1	PQL	ng/Kg	
	OCDF	J	0.534	10.1	PQL	ng/Kg	
SL-012-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.913	5.80	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.110	5.80	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0600	5.80	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0380	5.80	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0236	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0566	5.80	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JQ	0.0363	5.80	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0404	5.80	PQL	ng/Kg	
	OCDD	JB	6.21	11.6	PQL	ng/Kg	
	OCDF	JQ	0.182	11.6	PQL	ng/Kg	
SL-031-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.459	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.209	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0388	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0585	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.106	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.197	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.101	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.316	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	J	0.232	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.155	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.273	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0634	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.216	5.28	PQL	ng/Kg	
	OCDD	JB	2.31	10.6	PQL	ng/Kg	
	OCDF	JQ	0.448	10.6	PQL	ng/Kg	

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: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-031-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.321	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0700	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0586	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.189	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.227	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.190	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.282	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.224	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.333	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.300	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0811	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.280	5.44	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0974	1.09	PQL	ng/Kg	
	OCDD	JB	1.45	10.9	PQL	ng/Kg	
	OCDF	J	0.145	10.9	PQL	ng/Kg	
SL-042-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.451	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0336	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.305	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0525	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.938	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.231	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.134	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.117	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0338	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0695	5.28	PQL	ng/Kg	
	OCDD	JBQ	1.71	10.6	PQL	ng/Kg	
	OCDF	J	0.152	10.6	PQL	ng/Kg	
SL-044-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDF	JB	1.73	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0642	5.93	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.221	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.626	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.160	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.420	5.93	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.122	5.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0862	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.177	5.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.0891	5.93	PQL	ng/Kg	
	OCDF	J	2.00	11.9	PQL	ng/Kg	
SL-049-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.596	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0463	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.153	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0324	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.318	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0880	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0684	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.0455	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0657	5.34	PQL	ng/Kg	
	OCDD	JBQ	1.49	10.7	PQL	ng/Kg	
	OCDF	J	0.126	10.7	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX126

Laboratory: LL

EDD Filename: DX126\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-083-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.91	5.56	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.190	5.56	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0449	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0584	5.56	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0504	5.56	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.191	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.231	5.56	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0701	5.56	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.111	5.56	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0369	5.56	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0869	5.56	PQL	ng/Kg	
	OCDF	J	0.751	11.1	PQL	ng/Kg	
SL-153-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.195	5.67	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0366	5.67	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.271	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.383	5.67	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.849	5.67	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.109	5.67	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0387	5.67	PQL	ng/Kg	
	OCDD	JB	0.939	11.3	PQL	ng/Kg	
SL-153-SA5DN-SB-7.0-8.0	1,2,3,4,6,7,8-HPCDD	JB	0.344	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0684	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0970	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0418	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0802	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.149	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0512	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	J	0.0619	5.55	PQL	ng/Kg	
	OCDD	JB	0.999	11.1	PQL	ng/Kg	
	OCDF	JQ	0.141	11.1	PQL	ng/Kg	
SL-273-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.402	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0392	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0470	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0695	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0470	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.0550	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0845	5.25	PQL	ng/Kg	
	OCDD	JBQ	0.616	10.5	PQL	ng/Kg	
	OCDF	JQ	0.183	10.5	PQL	ng/Kg	
SL-273-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.478	5.65	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.131	5.65	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0495	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.109	5.65	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0856	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.226	5.65	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.129	5.65	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0992	5.65	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0332	5.65	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JQ	0.0772	5.65	PQL	ng/Kg	
	OCDD	JBQ	1.09	11.3	PQL	ng/Kg	
	OCDF	JQ	0.228	11.3	PQL	ng/Kg	

## **Enclosure II**

### **Level IV Validation Reports**

## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** Santa Susana Field Laboratory  
**Collection Date:** August 8 through August 9, 2011  
**LDC Report Date:** December 28, 2011  
**Matrix:** Soil/Water  
**Parameters:** Dioxins/Dibenzofurans  
**Validation Level:** Level IV  
**Laboratory:** Lancaster Laboratories  
**Sample Delivery Group (SDG):** DX126

### Sample Identification

SL-083-SA5DN-SB-4.0-5.0  
SL-153-SA5DN-SB-4.0-5.0  
SL-153-SA5DN-SB-7.0-8.0  
SL-273-SA6-SB-4.0-5.0  
SL-273-SA6-SB-9.0-10.0  
SL-031-SA6-SB-4.0-5.0  
SL-031-SA6-SB-9.0-10.0  
SL-042-SA6-SB-2.5-3.5  
SL-044-SA6-SB-2.5-3.5  
SL-049-SA6-SB-2.5-3.5  
EB-SA6-SB-080911  
SL-011-SA5DN-SB-4.0-5.0  
SL-012-SA5DN-SB-4.0-5.0  
SL-012-SA5DN-SB-9.0-10.0  
SL-009-SA5DN-SB-4.0-5.0  
SL-009-SA5DN-SB-9.0-10.0  
DUP24-SA5DN-QC-080911  
SL-009-SA5DN-SB-4.0-5.0MS  
SL-009-SA5DN-SB-4.0-5.0MSD

## Introduction

This data review covers 18 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

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

The following are definitions of the data qualifiers:

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

## **I. Technical Holding Times**

All technical holding time requirements were met.

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

## **II. HRGC/HRMS Instrument Performance Check**

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

## **III. Initial Calibration**

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

## **IV. Routine Calibration (Continuing)**

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:



Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
BLK224001	8/12/11	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.139 pg/L 0.457 pg/L 0.280 pg/L 0.450 pg/L 0.437 pg/L 0.405 pg/L 0.218 pg/L 0.268 pg/L 0.200 pg/L 0.373 pg/L 0.458 pg/L 0.595 pg/L 0.817 pg/L 3.99 pg/L 0.551 pg/L 8.97 pg/L 1.57 pg/L	All water samples in SDG DX126
BLK231004	8/19/11	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD	0.0911 ng/Kg 0.0624 ng/Kg 0.0816 ng/Kg 0.0440 ng/Kg 0.0497 ng/Kg 0.0511 ng/Kg 0.0461 ng/Kg 0.206 ng/Kg 0.0425 ng/Kg 0.280 ng/Kg	SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0 SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 DUP24-SA5DN-QC-080911
BLK238001	8/19/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0365 ng/Kg 0.0544 ng/Kg 0.0682 ng/Kg 0.0519 ng/Kg 0.0537 ng/Kg 0.0234 ng/Kg 0.0513 ng/Kg 0.0428 ng/Kg 0.0356 ng/Kg 0.0494 ng/Kg 0.236 ng/Kg 0.426 ng/Kg	SL-083-SA5DN-SB-4.0-5.0

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

Sample	Compound	Reported Concentration	Modified Final Concentration
EB-SA6-SB-080911	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.344 pg/L 0.163 pg/L 0.292 pg/L 0.238 pg/L 0.216 pg/L 0.223 pg/L 0.162 pg/L 0.366 pg/L 0.452 pg/L 0.650 pg/L 4.38 pg/L 0.550 pg/L 7.99 pg/L 1.02 pg/L	0.344U pg/L 0.163U pg/L 0.292U pg/L 0.238U pg/L 0.216U pg/L 0.223U pg/L 0.162U pg/L 0.366U pg/L 0.452U pg/L 0.650U pg/L 4.38U pg/L 0.550U pg/L 7.99U pg/L 1.02U pg/L
SL-153-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0387 ng/Kg 0.0366 ng/Kg 0.195 ng/Kg 0.939 ng/Kg	0.0387U ng/Kg 0.0366U ng/Kg 0.195U ng/Kg 0.939U ng/Kg
SL-153-SA5DN-SB-7.0-8.0	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0418 ng/Kg 0.0802 ng/Kg 0.0684 ng/Kg 0.344 ng/Kg 0.999 ng/Kg	0.0418U ng/Kg 0.0802U ng/Kg 0.0684U ng/Kg 0.344U ng/Kg 0.999U ng/Kg
SL-273-SA6-SB-4.0-5.0	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0470 ng/Kg 0.0470 ng/Kg 0.0695 ng/Kg 0.0392 ng/Kg 0.402 ng/Kg 0.616 ng/Kg	0.0470U ng/Kg 0.0470U ng/Kg 0.0695U ng/Kg 0.0392U ng/Kg 0.402U ng/Kg 0.616U ng/Kg
SL-273-SA6-SB-9.0-10.0	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD	0.0856 ng/Kg 0.0332 ng/Kg 0.109 ng/Kg 0.226 ng/Kg 0.131 ng/Kg 0.478 ng/Kg 0.0495 ng/Kg 1.09 ng/Kg	0.0856U ng/Kg 0.0332U ng/Kg 0.109U ng/Kg 0.226U ng/Kg 0.131U ng/Kg 0.478U ng/Kg 0.0495U ng/Kg 1.09U ng/Kg
SL-031-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.155 ng/Kg 0.106 ng/Kg 0.101 ng/Kg 0.0634 ng/Kg 0.197 ng/Kg 0.209 ng/Kg 0.459 ng/Kg 0.0388 ng/Kg	0.155U ng/Kg 0.106U ng/Kg 0.101U ng/Kg 0.0634U ng/Kg 0.197U ng/Kg 0.209U ng/Kg 0.459U ng/Kg 0.0388U ng/Kg
SL-031-SA6-SB-9.0-10.0	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.333 ng/Kg 0.189 ng/Kg 0.190 ng/Kg 0.0811 ng/Kg 0.227 ng/Kg 0.0700 ng/Kg 0.321 ng/Kg 0.0586 ng/Kg	0.333U ng/Kg 0.189U ng/Kg 0.190U ng/Kg 0.0811U ng/Kg 0.227U ng/Kg 0.0700U ng/Kg 0.321U ng/Kg 0.0586U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-042-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.134 ng/Kg 0.0525 ng/Kg 0.0338 ng/Kg 0.0336 ng/Kg 0.451 ng/Kg	0.134U ng/Kg 0.0525U ng/Kg 0.0338U ng/Kg 0.0336U ng/Kg 0.451U ng/Kg
SL-044-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.122 ng/Kg 0.221 ng/Kg 0.160 ng/Kg 0.177 ng/Kg 0.0642 ng/Kg	0.122U ng/Kg 0.221U ng/Kg 0.160U ng/Kg 0.177U ng/Kg 0.0642U ng/Kg
SL-049-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.0684 ng/Kg 0.0324 ng/Kg 0.153 ng/Kg 0.0463 ng/Kg 0.596 ng/Kg	0.0684U ng/Kg 0.0324U ng/Kg 0.153U ng/Kg 0.0463U ng/Kg 0.596U ng/Kg
SL-011-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD 1,2,3,4,6,7,8-HpCDF	0.0395 ng/Kg 0.0755 ng/Kg 0.0752 ng/Kg 0.429 ng/Kg 0.0885 ng/Kg	0.0395U ng/Kg 0.0755U ng/Kg 0.0752U ng/Kg 0.429U ng/Kg 0.0885U ng/Kg
SL-012-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF	0.0749 ng/Kg 0.102 ng/Kg 0.108 ng/Kg 0.148 ng/Kg	0.0749U ng/Kg 0.102U ng/Kg 0.108U ng/Kg 0.148U ng/Kg
SL-012-SA5DN-SB-9.0-10.0	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.0380 ng/Kg 0.0236 ng/Kg 0.0566 ng/Kg 0.110 ng/Kg 0.913 ng/Kg 0.0600 ng/Kg	0.0380U ng/Kg 0.0236U ng/Kg 0.0566U ng/Kg 0.110U ng/Kg 0.913U ng/Kg 0.0600U ng/Kg
SL-009-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.0278 ng/Kg 0.0715 ng/Kg 0.0813 ng/Kg 0.0752 ng/Kg 0.555 ng/Kg	0.0278U ng/Kg 0.0715U ng/Kg 0.0813U ng/Kg 0.0752U ng/Kg 0.555U ng/Kg
SL-009-SA5DN-SB-9.0-10.0	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF	0.277 ng/Kg 0.135 ng/Kg 0.142 ng/Kg 0.194 ng/Kg 0.129 ng/Kg 0.187 ng/Kg	0.277U ng/Kg 0.135U ng/Kg 0.142U ng/Kg 0.194U ng/Kg 0.129U ng/Kg 0.187U ng/Kg
DUP24-SA5DN-QC-080911	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.140 ng/Kg 0.0763 ng/Kg 0.0357 ng/Kg 0.0279 ng/Kg 0.0589 ng/Kg 0.0440 ng/Kg 0.122 ng/Kg 0.699 ng/Kg 0.0441 ng/Kg	0.140U ng/Kg 0.0763U ng/Kg 0.0357U ng/Kg 0.0279U ng/Kg 0.0589U ng/Kg 0.0440U ng/Kg 0.122U ng/Kg 0.699U ng/Kg 0.0441U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-083-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF	0.111 ng/Kg 0.0869 ng/Kg 0.0504 ng/Kg 0.0369 ng/Kg 0.191 ng/Kg 0.0701 ng/Kg 0.190 ng/Kg	0.111U ng/Kg 0.0869U ng/Kg 0.0504U ng/Kg 0.0369U ng/Kg 0.191U ng/Kg 0.0701U ng/Kg 0.190U ng/Kg

Sample EB-SA6-SB-080911 was identified as an equipment blank. No polychlorinated dioxin/dibenzofuran contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA6-SB-080911	8/9/11	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.344 pg/L 0.163 pg/L 0.292 pg/L 0.238 pg/L 0.216 pg/L 0.223 pg/L 0.162 pg/L 0.366 pg/L 0.452 pg/L 0.650 pg/L 4.38 pg/L 0.550 pg/L 7.99 pg/L 1.02 pg/L	SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5

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

## VI. Matrix Spike/Matrix Spike Duplicates

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

## VII. Laboratory Control Samples (LCS)

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

## VIII. Regional Quality Assurance and Quality Control

Not applicable.

## IX. Internal Standards

All internal standard recoveries were within QC limits.

## X. Target Compound Identifications

All target compound identifications were within validation criteria.

## XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX126	All compounds reported below the RL.	J (all detects)	A

## XII. System Performance

The system performance was acceptable.

## XIII. Overall Assessment of Data

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

## XIV. Field Duplicates

Samples SL-009-SA5DN-SB-4.0-5.0 and DUP24-SA5DN-QC-080911 were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
1,2,3,7,8-PeCDF	0.125	0.0543	79 (≤50)	J (all detects)	A
2,3,4,7,8-PeCDF	0.100	0.121	19 (≤50)	-	-
1,2,3,7,8-PeCDD	5.51U	0.140	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,4,7,8-HxCDF	5.51U	0.0763	200 (≤50)	J (all detects) UJ (all non-detects)	A

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-009-SA5DN-SB-4.0-5.0	DUP24-SA5DN-QC-080911			
1,2,3,6,7,8-HxCDF	5.51U	0.0357	200 (≤50)	J (all detects) UJ (all non-detects)	A
2,3,4,6,7,8-HxCDF	0.0278	0.0279	0 (≤50)	-	-
1,2,3,4,7,8-HxCDD	5.51U	0.0520	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,6,7,8-HxCDD	0.0715	0.0589	19 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.0813	0.0440	60 (≤50)	J (all detects)	A
1,2,3,7,8,9-HxCDF	0.0413	0.0396	4 (≤50)	-	-
1,2,3,4,6,7,8-HpCDF	0.0752	0.122	47 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	0.555	0.699	23 (≤50)	-	-
1,2,3,4,7,8,9-HpCDF	5.51U	0.0441	200 (≤50)	J (all detects) UJ (all non-detects)	A
OCDD	4.04	4.76	16 (≤50)	-	-
OCDF	0.140	0.273	64 (≤50)	J (all detects)	A

**Santa Susana Field Laboratory**  
**Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX126**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX126	SL-083-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-4.0-5.0 SL-153-SA5DN-SB-7.0-8.0 SL-273-SA6-SB-4.0-5.0 SL-273-SA6-SB-9.0-10.0 SL-031-SA6-SB-4.0-5.0 SL-031-SA6-SB-9.0-10.0 SL-042-SA6-SB-2.5-3.5 SL-044-SA6-SB-2.5-3.5 SL-049-SA6-SB-2.5-3.5 EB-SA6-SB-080911 SL-011-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-4.0-5.0 SL-012-SA5DN-SB-9.0-10.0 SL-009-SA5DN-SB-4.0-5.0 SL-009-SA5DN-SB-9.0-10.0 DUP24-SA5DN-QC-080911	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX126	SL-009-SA5DN-SB-4.0-5.0 DUP24-SA5DN-QC-080911	1,2,3,7,8-PeCDF 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF	J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)
DX126	SL-009-SA5DN-SB-4.0-5.0 DUP24-SA5DN-QC-080911	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8,9-HpCDF	J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)

**Santa Susana Field Laboratory**  
**Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX126**

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX126	EB-SA6-SB-080911	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.344U pg/L 0.163U pg/L 0.292U pg/L 0.238U pg/L 0.216U pg/L 0.223U pg/L 0.162U pg/L 0.366U pg/L 0.452U pg/L 0.650U pg/L 4.38U pg/L 0.550U pg/L 7.99U pg/L 1.02U pg/L	A	B
DX126	SL-153-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0387U ng/Kg 0.0366U ng/Kg 0.195U ng/Kg 0.939U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX126	SL-153-SA5DN-SB-7.0-8.0	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0418U ng/Kg 0.0802U ng/Kg 0.0684U ng/Kg 0.344U ng/Kg 0.999U ng/Kg	A	B
DX126	SL-273-SA6-SB-4.0-5.0	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD OCDD	0.0470U ng/Kg 0.0470U ng/Kg 0.0695U ng/Kg 0.0392U ng/Kg 0.402U ng/Kg 0.616U ng/Kg	A	B
DX126	SL-273-SA6-SB-9.0-10.0	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD	0.0856U ng/Kg 0.0332U ng/Kg 0.109U ng/Kg 0.226U ng/Kg 0.131U ng/Kg 0.478U ng/Kg 0.0495U ng/Kg 1.09U ng/Kg	A	B
DX126	SL-031-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.155U ng/Kg 0.106U ng/Kg 0.101U ng/Kg 0.0634U ng/Kg 0.197U ng/Kg 0.209U ng/Kg 0.459U ng/Kg 0.0388U ng/Kg	A	B
DX126	SL-031-SA6-SB-9.0-10.0	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.333U ng/Kg 0.189U ng/Kg 0.190U ng/Kg 0.0811U ng/Kg 0.227U ng/Kg 0.0700U ng/Kg 0.321U ng/Kg 0.0586U ng/Kg	A	B
DX126	SL-042-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.134U ng/Kg 0.0525U ng/Kg 0.0338U ng/Kg 0.0336U ng/Kg 0.451U ng/Kg	A	B
DX126	SL-044-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.122U ng/Kg 0.221U ng/Kg 0.160U ng/Kg 0.177U ng/Kg 0.0642U ng/Kg	A	B
DX126	SL-049-SA6-SB-2.5-3.5	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.0684U ng/Kg 0.0324U ng/Kg 0.153U ng/Kg 0.0463U ng/Kg 0.596U ng/Kg	A	B



SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX126	SL-011-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDD 1,2,3,4,6,7,8-HpCDF	0.0395U ng/Kg 0.0755U ng/Kg 0.0752U ng/Kg 0.429U ng/Kg 0.0885U ng/Kg	A	B
DX126	SL-012-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF	0.0749U ng/Kg 0.102U ng/Kg 0.108U ng/Kg 0.148U ng/Kg	A	B
DX126	SL-012-SA5DN-SB-9.0-10.0	1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.0380U ng/Kg 0.0236U ng/Kg 0.0566U ng/Kg 0.110U ng/Kg 0.913U ng/Kg 0.0600U ng/Kg	A	B
DX126	SL-009-SA5DN-SB-4.0-5.0	2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD	0.0278U ng/Kg 0.0715U ng/Kg 0.0813U ng/Kg 0.0752U ng/Kg 0.555U ng/Kg	A	B
DX126	SL-009-SA5DN-SB-9.0-10.0	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF	0.277U ng/Kg 0.135U ng/Kg 0.142U ng/Kg 0.194U ng/Kg 0.129U ng/Kg 0.187U ng/Kg	A	B
DX126	DUP24-SA5DN-QC-080911	1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.140U ng/Kg 0.0763U ng/Kg 0.0357U ng/Kg 0.0279U ng/Kg 0.0589U ng/Kg 0.0440U ng/Kg 0.122U ng/Kg 0.699U ng/Kg 0.0441U ng/Kg	A	B
DX126	SL-083-SA5DN-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF	0.111U ng/Kg 0.0869U ng/Kg 0.0504U ng/Kg 0.0369U ng/Kg 0.191U ng/Kg 0.0701U ng/Kg 0.190U ng/Kg	A	B

**Santa Susana Field Laboratory**  
**Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX126**

No Sample Data Qualified in this SDG

LDC #: 26850C21

**VALIDATION COMPLETENESS WORKSHEET**

SDG #: DX126

Level IV

Laboratory: Lancaster Laboratories

Date: 12/27/11

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	Δ	Sampling dates: 8/8 → 8/9/11
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	Δ	% PSD = 20/35
IV.	Routine calibration/ICV	A	CV = AC limit
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	Δ	
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	Δ	AC limit
X.	Target compound identifications	Δ	
XI.	Compound quantitation and CRQLs	Δ	
XII.	System performance	A	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 15, 17
XV.	Field blanks	SW	EB = 11

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

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

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

soil + water

1	3	SL-083-SA5DN-SB-4.0-5.0	11	1	EB-SA6-SB-080911	W	21	Blank 224001	31	
2	2	SL-153-SA5DN-SB-4.0-5.0	12	2	SL-011-SA5DN-SB-4.0-5.0		22	Blank 231004	32	
3	2	SL-153-SA5DN-SB-7.0-8.0	13	2	SL-012-SA5DN-SB-4.0-5.0		23	Blank 238001	33	
4	2	SL-273-SA6-SB-4.0-5.0	14	2	SL-012-SA5DN-SB-9.0-10.0		24		34	
5	2	SL-273-SA6-SB-9.0-10.0	15	2	SL-009-SA5DN-SB-4.0-5.0	Q	25		35	
6	2	SL-031-SA6-SB-4.0-5.0	16	2	SL-009-SA5DN-SB-9.0-10.0		26		36	
7	2	SL-031-SA6-SB-9.0-10.0	17	2	DUP24-SA5DN-QC-080911	D	27		37	
8	2	SL-042-SA6-SB-2.5-3.5	18	2	SL-009-SA5DN-SB-4.0-5.0MS		28		38	
9	2	SL-044-SA6-SB-2.5-3.5	19	2	SL-009-SA5DN-SB-4.0-5.0MSD		29		39	
10	2	SL-049-SA6-SB-2.5-3.5	20				30		40	

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

**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 $\leq 35\%$ 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 $\geq 10$ ?	✓			
<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 Area	Yes	No	NA	Findings/Comments
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Internal standards				
Were internal standard recoveries within the 25-150% criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the minimum S/N ratio of all internal standard peaks > 10?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
X. Target compound identification				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within -1 to 3 sec. of the RT of the labeled standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra contain all characteristic ions listed in the table attached?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the signal to noise ratio for each target compound and labeled standard $\geq 2.5$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the maximum intensity of each specified characteristic ion coincide within $\pm 2$ seconds (includes labeled standards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For PCDF identification, was any signal ( $S/N \geq 2.5$ , at $\pm$ seconds RT) detected in the corresponding PCDF channel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Was an acceptable lock mass recorded and monitored?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Field blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

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? \*EMPCY N N/A Was the method blank contaminated?

Blank extraction date: 8/12/11 Blank analysis date: 8/16/11

Associated samples: ALL WATER

Conc. units: pg/L

Compound		Blank ID	Sample Identification				
		BLK224001	5X	11			
H		0.139	0.695				
A		0.457*	2.285	0.344*U			
I		0.280*	1.4	0.163*U			
J		0.450*	2.25	0.292*U			
B		0.437*	2.185	0.238*U			
K		0.405	2.025	0.216*U			
L		0.218*	1.09	0.223*U			
M		0.268	1.34	0.162*U			
C		0.200*	1				
D		0.373*	1.865	0.366*U			
E		0.458	2.29	0.452*U			
N		0.595*	2.975				
O		0.817*	4.085	0.650U			
F		3.99	19.95	4.38U			
P		0.551*	2.755	0.550*U			
G		8.97	44.85	7.99*U			
Q		1.57*	7.85	1.02U			

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

All contaminants within five times the method blank concentration were qualified as not detected, "U".

## VALIDATION FINDINGS WORKSHEET

## Blanks

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? \*EMPC

Y N N/A Was the method blank contaminated?

Blank extraction date: 8/19/11 Blank analysis date: 8/22/11

Associated samples: 2-10, 12-17

Conc. units: ng/kg

Compound	Blank ID	Sample Identification								
		5X	2	3	4	5	6	7	8	9
B	BLK231004	0.4555					0.155*U	0.333U	0.134U	0.122*U
K	0.0911*	0.312		0.0418*U	0.0470*U		0.106*U	0.189*U		0.221*U
L	0.0624*	0.408			0.0470*U	0.0856*U	0.101*U	0.190*U	0.0525*U	0.160*U
M	0.0816*	0.22	0.0387*U			0.0332*U	0.0634U	0.0811*U	0.0338*U	0.177*U
D	0.0440*	0.2485		0.0802*U	0.0695*U	0.109*U	0.197*U	0.227U		
E	0.0497*	0.2555				0.226*U				
O	0.0511*	0.2305	0.0366*U	0.0684*U	0.0392U	0.131*U	0.209*U	0.0700*U	0.0336*U	
F	0.0461*	1.03	0.195U	0.344U	0.402U	0.478U	0.459*U	0.321*U	0.451*U	
P	0.206	0.2125				0.0495U	0.0388U	0.0586U		0.0642*U
G	0.0425*	1.4	0.939U	0.999U	0.616*U	1.09*U				
	0.280									

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

All contaminants within five times the method blank concentration were qualified as not detected, "U".

## VALIDATION FINDINGS WORKSHEET

Blanks

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

(B)

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? \*EMPC

Y N N/A Was the method blank contaminated?

Blank extraction date: 8/19/11 Blank analysis date: 8/22/11

Associated samples: 2-10, 12-17

Conc. units: ng/kg

Compound	Blank ID	Sample Identification										
		5X	10	12	13	14	15	16	17			
	BLK231004											
B	0.0911*	0.4555	0.0684*U		0.0749*U			0.277U	0.140*U			
K	0.0624*	0.312				0.0380*U		0.135U	0.0763*U			
L	0.0816*	0.408	0.0324*U			0.0236*U			0.0357*U			
M	0.0440*	0.22		0.0395*U			0.0278*U	0.142*U	0.0279*U			
D	0.0497*	0.2485	0.153*U	0.0755*U	0.102U		0.0715*U	0.194*U	0.0589*U			
E	0.0511*	0.2555		0.0752*U	0.108*U	0.0566*U	0.0813U	0.129U	0.0440U			
O	0.0461*	0.2305	0.0463U	0.0755*U	0.148U	0.110U	0.0752U	0.187*U	0.122U			
F	0.206	1.03	0.596*U	0.429U 0.0885*U		0.913U	0.555*U		0.699U			
P	0.0425*	0.2125				0.0600*U			0.0441*U			
G	0.280	1.4										

0.225\*

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
All contaminants within five times the method blank concentration were qualified as not detected, "U".



**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A

Were all samples associated with a method blank?

Y N N/A

Was a method blank performed for each matrix and whenever a sample extraction was performed? \*EMPC

Y N N/A

Was the method blank contaminated?

Blank extraction date: 8/19/11 Blank analysis date: 8/22/11 Associated samples: 1

Conc. units: ng/kg

Compound		Blank ID	Sample Identification				
		BLK238001	5X	1			
I		0.0365*	0.1825	0.111*U			
J		0.0544*	0.272	0.0869*U			
B		0.0682*	0.341				
K		0.0519*	0.2595	0.0504*U			
L		0.0537*	0.2685				
M		0.0234*	0.117	0.0369*U			
D		0.0513*	0.2565	0.191*U			
E		0.0428*	0.214				
N		0.0356*	0.178	0.0701*U			
O		0.0494*	0.247	0.190U			
F		0.236*	1.18				
G		0.426*	2.13				

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

All contaminants within five times the method blank concentration were qualified as not detected, "U".

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y N N/A Were field blank identified in this SDG? (F)

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

Blank unit: pg/L Associated sample unit: ng/Kg

Sampling date: 8/9/11

Associated samples: 8-10, 12-17 >5x

Compound	Blank ID	Sample Identification									
		11	5X								
H			0								
A	0.344*		1.72								
I	0.163*		0.815								
J	0.292*		1.46								
B	0.238*		1.19								
K	0.216*		1.08								
L	0.223*		1.115								
M	0.162*		0.81								
C			0								
D	0.366*		1.83								
E	0.452*		2.26								
N			0								
O	0.650		3.25								
F	4.38		21.9								
P	0.550*		2.75								
G	7.99*		39.95								
Q	1.02		5.1								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC#: 26850C21

# **VALIDATION FINDINGS WORKSHEET** **Field Duplicates**

Page: 1 of 1  
Reviewer: FN  
2nd Reviewer: E

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B) 1613BY N NA

Were field duplicate pairs identified in this SDG?

Y N NA

Were target analytes detected in the field duplicate pairs?

\* enpc

(fd)

Compound	Concentration (ng/kg)		RPD	
	15	17		
I	0.125*	0.0543*	79	J/A dit
J	0.100	0.121*	19	
B	<del>0.0699U</del> 5.51U	0.140*	200	J/W/A
K	<del>0.0264U</del> 5.51U	0.0763*	200	↓
L	<del>0.0234U</del> 5.51U	0.0357*	200	
M	0.0278*	0.0279*	0	
C	<del>0.0410U</del> 5.51U	0.0520*	200	J/W/A
D	0.0715*	0.0589*	19	
E	0.0813	0.0440	60	J/A dit
N	0.0413	0.0396*	4	
O	0.0752	0.122	47	
F	0.555*	0.699	23	
P	<del>0.0374U</del> 5.51U	0.0441*	200	J/W/A
G	4.04	4.76	16	
Q	0.140*	0.273*	64	J/A dit

V:\FIELD DUPLICATES\templates\26850C21.wpd

# 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:

$$RRF = (A_s)(C_s)/(A_u)(C_u)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

A<sub>s</sub> = Area of compound,

C<sub>s</sub> = Concentration of compound,

S = Standard deviation of the RRFs, X = Mean of the RRFs

A<sub>u</sub> = Area of associated internal standard

C<sub>u</sub> = 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)	Average RRF (initial)	RRF (std)	RRF (std)	%RSD	RRF (std)	%RSD
1	CAL	6/3/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	1.017	1.017	1.017	1.033	1.033	4.59	1.033	4.59
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	1.186	1.186	1.186	1.186	1.186	5.56	1.186	5.56
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	0.995	0.995	0.995	1.001	1.001	3.43	1.001	3.43
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	1.017	1.017	1.017	1.101	1.101	4.02	1.101	4.02
			OCDF ( <sup>13</sup> C-OCDF)	0.945	0.945	0.945	0.974	0.974	3.54	0.974	3.54
2	CAL	6/24/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	1.022	1.022	1.022	1.028	1.028	7.77	1.028	7.77
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	1.133	1.133	1.133	1.142	1.142	3.52	1.142	3.52
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	0.971	0.971	0.971	1.018	1.018	4.32	1.018	4.32
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	1.053	1.053	1.053	1.087	1.087	4.49	1.087	4.49
			OCDF ( <sup>13</sup> C-OCDF)	0.950	0.950	0.950	1.001	1.001	5.01	1.001	5.01
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:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_s) / (A_s)(C_x)$$

Where: ave. RRF = initial calibration average RRF  
RRF = continuing calibration RRF

A<sub>x</sub> = Area of compound,  
C<sub>x</sub> = Concentration of compound,  
A<sub>s</sub> = Area of associated internal standard  
C<sub>s</sub> = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Conc. Average RRF (initial)	Reported		Recalculated		Reported	Recalculated
					Conc. -RRF (CC)	Conc. -RRF (CC)	Conc. -RRF (CC)	%D		
1	cen 10:16	8/16/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	9.740	9.740	9.740	97	97	97
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	9.180	9.180	9.180	92	92	92
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	50.0	50.360	50.360	50.360	101	101	101
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	50.0	50.180	50.180	50.180	100	100	100
			OCDF ( <sup>13</sup> C-OCDF)	100.00	107.420	107.420	107.420	107	107	107
2	cen 13:04	8/22/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)		9.970	9.970	9.970	100	100	100
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)		10.640	10.640	10.640	106	106	106
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)		52.00	52.00	52.00	104	104	104
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)		52.430	52.430	52.430	105	105	105
			OCDF ( <sup>13</sup> C-OCDF)		104.880	104.880	104.880	105	105	105
3	cen 01:33	8/23/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)		10.330	10.330	10.330	103	103	103
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)		10.720	10.720	10.720	107	107	107
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)		51.920	51.920	51.920	104	104	104
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)		51.370	51.370	51.370	103	103	103
			OCDF ( <sup>13</sup> C-OCDF)		106.120	106.120	106.120	106	106	106

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

# VALIDATION FINDINGS WORKSHEET Routine Calibration Results Verification

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290) 161313

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:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_{is}) / (A_{is})(C_x)$$

Where: ave. RRF = initial calibration average RRF

RRF = continuing calibration RRF

$A_x$  = Area of compound,

$C_x$  = Concentration of compound,

$A_{is}$  = Area of associated internal standard

$C_{is}$  = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Conc. Average RRF (Initial)	Reported		Recalculated		Reported		Recalculated	
					Conc -RRF (CC)		Conc -RRF (CC)		%D		%D	
1	CCU 0016	8/30/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	10.3		10.3		10.3		10.3	
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	10.44		10.44		10.4		10.4	
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	50.0	51.120		51.120		10.2		10.2	
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	50.0	50.940		50.940		10.2		10.2	
			OCDF ( <sup>13</sup> C-OCDD)	100.00	100.00		100.00		10.0		10.0	
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-OCDD)									
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-OCDD)									

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



**METHOD:** GC/MS Dioxins/Dibenzofurans (EPA SW 846 Method 1613B)

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

$$\% \text{ Recovery} = 100 * \text{SSC/SA}$$

Where: SSC = Spiked sample concentration  
SA = Spike added

$$RPD = |LCS - LCSD| * 2 / (LCS + LCSD)$$

LCS = Laboratory control sample percent recovery

LCSD = Laboratory control sample duplicate percent recovery

LCSID: 0PR 231004

[illegible]

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



## VALIDATION FINDINGS WORKSHEET

### Sample Calculation Verification

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

$A_x$  = Area of the characteristic ion (EICP) for the compound to be measured

$A_{is}$  = Area of the characteristic ion (EICP) for the specific internal standard

$I_s$  = Amount of internal standard added in nanograms (ng)

$V_o$  = Volume or weight of sample extract in milliliters (ml) or grams (g).

RRF = Relative Response Factor (average) from the initial calibration

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

Example:

Sample I.D. #1, OCPD.

$$\begin{aligned} & 12340 \\ & + \\ \text{Conc.} &= (111189) (4000) (10.2) (0.878) \\ & (699355) (1.041) \\ & + \\ & 888855 \\ & = \\ & 53.47 \text{ ng/kg} \end{aligned}$$

[illegible]

# **SAMPLE DELIVERY GROUP**

**DX127**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
10-Aug-2011	SL-185-SA6-SB-4.0-5.0	6372859	N	METHOD	1613B	III
10-Aug-2011	SL-185-SA6-SB-9.0-10.0	6372860	N	METHOD	1613B	III
10-Aug-2011	SL-151-SA6-SB-4.0-5.0	6372853	N	METHOD	1613B	III
10-Aug-2011	SL-151-SA6-SB-9.0-10.0	6372854	N	METHOD	1613B	III
10-Aug-2011	SL-007-SA5DN-SB-4.0-5.0	6372849	N	METHOD	1613B	III
10-Aug-2011	SL-183-SA6-SB-4.0-5.0	6372857	N	METHOD	1613B	III
10-Aug-2011	SL-183-SA6-SB-9.0-10.0	6372858	N	METHOD	1613B	III
10-Aug-2011	SL-071-SA5DN-SB-4.0-5.0	6372850	N	METHOD	1613B	III
10-Aug-2011	SL-071-SA5DN-SB-9.0-10.0	6372851	N	METHOD	1613B	III
10-Aug-2011	SL-182-SA6-SB-4.0-5.0	6372855	N	METHOD	1613B	III
10-Aug-2011	SL-182-SA6-SB-9.0-10.0	6372856	N	METHOD	1613B	III
10-Aug-2011	SL-072-SA5DN-SB-4.0-5.0	6372852	N	METHOD	1613B	III
11-Aug-2011	SL-006-SA5DN-SB-4.0-5.0	6374029	N	METHOD	1613B	III
11-Aug-2011	SL-006-SA5DN-SB-9.0-10.0	6374030	N	METHOD	1613B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0	6374032	N	METHOD	1613B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MS	6374033	MS	METHOD	1613B	III
11-Aug-2011	SL-155-SA6-SB-4.0-5.0MSD	6374034	MSD	METHOD	1613B	III
11-Aug-2011	DUP24-SA6-QC-081111	6374037	FD	METHOD	1613B	III
11-Aug-2011	SL-207-SA5DN-SB-4.0-5.0	6374031	N	METHOD	1613B	III
11-Aug-2011	EB-SA5DN-SB-081111	6374038	EB	METHOD	1613B	III
11-Aug-2011	SL-033-SA6-SB-2.5-3.5	6374036	N	METHOD	1613B	III
11-Aug-2011	SL-174-SA6-SB-2.0-3.0	6374035	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>AQ</b>

Sample ID: EB-SA5DN-SB-081111

Collected: 8/11/2011 12:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.76	JB	0.144	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.446	JBQ	0.0483	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.161	JB	0.0600	MDL	10.6	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.217	JBQ	0.0554	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.274	JBQ	0.0995	MDL	10.6	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.164	JB	0.0551	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.193	JBQ	0.0992	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.200	JBQ	0.0589	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.136	JB	0.110	MDL	10.6	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.0761	JBQ	0.0581	MDL	10.6	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.126	JBQ	0.0538	MDL	10.6	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.273	JB	0.0507	MDL	10.6	PQL	pg/L	U	B
2,3,7,8-TCDD	0.152	JBQ	0.118	MDL	2.11	PQL	pg/L	U	B
OCDD	4.40	JB	0.106	MDL	21.1	PQL	pg/L	U	B
OCDF	0.433	JB	0.143	MDL	21.1	PQL	pg/L	U	B

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP24-SA6-QC-081111

Collected: 8/11/2011 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.232	JB	0.0769	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0533	JBQ	0.0281	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0533	U	0.0533	MDL	5.18	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0326	U	0.0326	MDL	5.18	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDD	0.0529	U	0.0529	MDL	5.18	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDF	0.0558	JB	0.0288	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0534	JBQ	0.0513	MDL	5.18	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0562	JBQ	0.0296	MDL	5.18	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0893	JQ	0.0781	MDL	5.18	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.0374	U	0.0374	MDL	5.18	PQL	ng/Kg	UJ	FD
2,3,4,6,7,8-HXCDF	0.0298	U	0.0298	MDL	5.18	PQL	ng/Kg	UJ	FD
2,3,4,7,8-PECDF	0.0707	JBQ	0.0386	MDL	5.18	PQL	ng/Kg	UJ	B, FD

\* denotes a non-reportable result

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

1/3/2012 10:07:06 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: DUP24-SA6-QC-081111

Collected: 8/11/2011 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	0.660	JB	0.0502	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.226	JBQ	0.0869	MDL	10.4	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-006-SA5DN-SB-4.0-5.0

Collected: 8/11/2011 8:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.55	JB	0.0904	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.319	JB	0.0264	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0768	JBQ	0.0486	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0663	JB	0.0400	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.105	J	0.0477	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0327	JBQ	0.0326	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.135	JB	0.0499	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0986	JBQ	0.0453	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0828	JQ	0.0740	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0468	JQ	0.0374	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0584	JQ	0.0364	MDL	5.66	PQL	ng/Kg	J	Z
OCDF	0.827	JBQ	0.112	MDL	11.3	PQL	ng/Kg	J	Z

Sample ID: SL-006-SA5DN-SB-9.0-10.0

Collected: 8/11/2011 9:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.361	JB	0.0641	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0869	JBQ	0.0273	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0536	JB	0.0442	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0477	JB	0.0449	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.106	JB	0.0332	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0590	JQ	0.0452	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0769	JB	0.0296	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0945	JBQ	0.0454	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0605	JBQ	0.0370	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.116	JQ	0.0753	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0939	JQ	0.0329	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0503	J	0.0314	MDL	5.57	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.112	JBQ	0.0317	MDL	5.57	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-006-SA5DN-SB-9.0-10.0

Collected: 8/11/2011 9:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	2.44	JB	0.0552	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.263	JB	0.0831	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-007-SA5DN-SB-4.0-5.0

Collected: 8/10/2011 9:20:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.367	JB	0.0950	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0691	JB	0.0298	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0606	JBQ	0.0557	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0813	JBQ	0.0449	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.219	JQ	0.0641	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0976	JBQ	0.0398	MDL	5.82	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.375	JBQ	0.0591	MDL	5.82	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0843	JQ	0.0497	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0768	JQ	0.0411	MDL	5.82	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0923	JBQ	0.0501	MDL	5.82	PQL	ng/Kg	U	B
OCDD	1.40	JBQ	0.0568	MDL	11.6	PQL	ng/Kg	U	B
OCDF	0.210	JBQ	0.112	MDL	11.6	PQL	ng/Kg	U	B

Sample ID: SL-033-SA6-SB-2.5-3.5

Collected: 8/11/2011 2:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.60	JB	0.107	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.947	JB	0.0318	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0637	JB	0.0589	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0799	JB	0.0480	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.196	JQ	0.0750	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.114	JB	0.0418	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.237	JBQ	0.0731	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.135	JBQ	0.0474	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0952	J	0.0833	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.134	JQ	0.0451	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.248	JBQ	0.0470	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.112	JQ	0.102	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	2.48	JB	0.0999	MDL	10.4	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-071-SA5DN-SB-4.0-5.0

Collected: 8/10/2011 11:19:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.32	JBQ	0.121	MDL	5.71	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0633	JBQ	0.0627	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0419	JB	0.0410	MDL	5.71	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0705	J	0.0656	MDL	5.71	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0720	JBQ	0.0479	MDL	5.71	PQL	ng/Kg	U	B
OCDF	0.189	JB	0.143	MDL	11.4	PQL	ng/Kg	U	B

Sample ID: SL-071-SA5DN-SB-9.0-10.0

Collected: 8/10/2011 11:57:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.729	JB	0.0812	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0563	JBQ	0.0527	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0310	JB	0.0308	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0528	JQ	0.0399	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0557	JQ	0.0327	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0430	JB	0.0395	MDL	5.53	PQL	ng/Kg	U	B
OCDD	2.98	JB	0.0491	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.163	JB	0.104	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-072-SA5DN-SB-4.0-5.0

Collected: 8/10/2011 2:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.30	JB	0.0612	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.287	JBQ	0.128	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.950	J	0.120	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0878	JBQ	0.0577	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.477	JBQ	0.110	MDL	5.93	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.120	JB	0.0794	MDL	5.93	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0947	JQ	0.0571	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.220	JQ	0.0628	MDL	5.93	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0802	JBQ	0.0589	MDL	5.93	PQL	ng/Kg	U	B
OCDF	5.56	JB	0.153	MDL	11.9	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-151-SA6-SB-4.0-5.0

Collected: 8/10/2011 8:59:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.281	JB	0.0739	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0582	JBQ	0.0186	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0441	JBQ	0.0351	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0504	JQ	0.0477	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0497	JBQ	0.0303	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.126	JBQ	0.0479	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0458	JQ	0.0357	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0398	J	0.0320	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0481	JBQ	0.0345	MDL	5.20	PQL	ng/Kg	U	B
OCDD	1.13	JB	0.0440	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.181	JB	0.103	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-151-SA6-SB-9.0-10.0

Collected: 8/10/2011 9:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.313	JBQ	0.0778	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0921	JB	0.0232	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0649	JB	0.0509	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0891	JBQ	0.0517	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.114	JBQ	0.0336	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0887	JQ	0.0513	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0958	JB	0.0287	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.102	JB	0.0517	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.127	JBQ	0.0413	MDL	5.59	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.274	JQ	0.0780	MDL	5.59	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.213	JQ	0.0371	MDL	5.59	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0772	JQ	0.0317	MDL	5.59	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.218	JB	0.0390	MDL	5.59	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.128	J	0.0854	MDL	1.12	PQL	ng/Kg	J	Z
OCDD	0.891	JBQ	0.0406	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.181	JB	0.104	MDL	11.2	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-155-SA6-SB-4.0-5.0

Collected: 8/11/2011 10:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.232	JB	0.0702	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0664	JBQ	0.0227	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0694	JB	0.0469	MDL	5.28	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDF	0.0905	JBQ	0.0324	MDL	5.28	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDD	0.0909	J	0.0480	MDL	5.28	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HxCDF	0.0916	JB	0.0302	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.150	JB	0.0485	MDL	5.28	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDF	0.110	JBQ	0.0367	MDL	5.28	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.185	JQ	0.0706	MDL	5.28	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.164	JQ	0.0357	MDL	5.28	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HxCDF	0.0675	J	0.0319	MDL	5.28	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.139	JBQ	0.0352	MDL	5.28	PQL	ng/Kg	UJ	B, FD
OCDD	0.725	JB	0.0449	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.112	JBQ	0.0857	MDL	10.6	PQL	ng/Kg	UJ	B, FD

Sample ID: SL-174-SA6-SB-2.0-3.0

Collected: 8/11/2011 2:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.395	JB	0.0706	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.102	JBQ	0.0260	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0881	JBQ	0.0409	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.128	JBQ	0.0373	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.154	JQ	0.0547	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.117	JBQ	0.0329	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.144	JB	0.0520	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.119	J	0.0846	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.103	J	0.0463	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.113	J	0.0332	MDL	5.21	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.163	JB	0.0447	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.101	JQ	0.0967	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	1.06	JB	0.0507	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.147	JBQ	0.0860	MDL	10.4	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</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
1,2,3,4,6,7,8-HPCDD	0.362	JB	0.0707	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0898	JBQ	0.0202	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0699	JBQ	0.0481	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.201	JBQ	0.0549	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.202	JBQ	0.0350	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.131	J	0.0527	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.151	JB	0.0278	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.170	JBQ	0.0508	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.163	JB	0.0398	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.146	J	0.0746	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.325	JQ	0.0355	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.126	JQ	0.0314	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.244	JBQ	0.0382	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.128	JQ	0.0834	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	3.62	JB	0.0402	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.232	JB	0.104	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-182-SA6-SB-9.0-10.0

Collected: 8/10/2011 12:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.205	JB	0.0814	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0749	JB	0.0446	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.108	JBQ	0.0606	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.154	JB	0.111	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0984	JQ	0.0737	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.197	JB	0.0914	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.121	JB	0.0661	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.183	JBQ	0.0595	MDL	5.60	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.287	JQ	0.0894	MDL	5.60	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.159	JQ	0.0490	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0407	J	0.0401	MDL	5.60	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.242	JBQ	0.0506	MDL	5.60	PQL	ng/Kg	U	B
OCDD	0.713	JBQ	0.0653	MDL	11.2	PQL	ng/Kg	U	B
OCDF	0.214	JBQ	0.163	MDL	11.2	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-183-SA6-SB-4.0-5.0

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.505	JB	0.0667	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.143	JB	0.0254	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0969	JBQ	0.0487	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.131	JB	0.0295	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.136	JQ	0.0497	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0731	JBQ	0.0268	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.123	JB	0.0504	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0788	JBQ	0.0334	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.203	JQ	0.0744	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.233	JQ	0.0382	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0800	JQ	0.0285	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.142	JB	0.0375	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.136	J	0.0861	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	3.53	JB	0.0552	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.172	JB	0.0978	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-183-SA6-SB-9.0-10.0

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.319	JBQ	0.0646	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0403	JBQ	0.0185	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0560	JBQ	0.0466	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0561	JBQ	0.0447	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0576	JBQ	0.0396	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0399	J	0.0309	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0471	JBQ	0.0391	MDL	5.53	PQL	ng/Kg	U	B
OCDD	0.572	JB	0.0390	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.307	JB	0.119	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-185-SA6-SB-4.0-5.0

Collected: 8/10/2011 7:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.512	JBQ	0.0700	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0569	JBQ	0.0200	MDL	5.52	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0581	JBQ	0.0374	MDL	5.52	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-185-SA6-SB-4.0-5.0

Collected: 8/10/2011 7:49:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.475	JB	0.0468	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0631	JQ	0.0604	MDL	5.52	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0752	JQ	0.0292	MDL	5.52	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0495	JBQ	0.0307	MDL	5.52	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0786	J	0.0646	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	3.90	JB	0.0459	MDL	11.0	PQL	ng/Kg	J	Z
OCDF	0.133	JBQ	0.0849	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-185-SA6-SB-9.0-10.0

Collected: 8/10/2011 7:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.159	JB	0.0658	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0381	JBQ	0.0193	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0597	JB	0.0437	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0760	JQ	0.0503	MDL	5.57	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.0768	JBQ	0.0491	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.120	JBQ	0.0338	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0961	J	0.0935	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	1.04	JB	0.0438	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.214	JBQ	0.109	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-207-SA5DN-SB-4.0-5.0

Collected: 8/11/2011 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.287	JB	0.0704	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0816	JB	0.0224	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0557	JB	0.0392	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0579	JB	0.0518	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0791	JB	0.0324	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.106	J	0.0531	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0982	JBQ	0.0290	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0769	JB	0.0555	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0923	JBQ	0.0372	MDL	5.66	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.180	J	0.0676	MDL	5.66	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.218	JQ	0.0426	MDL	5.66	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-207-SA5DN-SB-4.0-5.0

Collected: 8/11/2011 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0740	JQ	0.0317	MDL	5.66	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.163	JB	0.0405	MDL	5.66	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.105	J	0.0756	MDL	1.13	PQL	ng/Kg	J	Z
OCDD	1.21	JB	0.0434	MDL	11.3	PQL	ng/Kg	U	B
OCDF	0.162	JB	0.0808	MDL	11.3	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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: DX127

Laboratory: LL

EDD Filename: DX127\_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: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX127

# Method Blank Outlier Report

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2290B371851	8/18/2011 6:51:00 PM	1,2,3,4,6,7,8-HPCDD 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	3.13 pg/L 1.11 pg/L 0.553 pg/L 0.326 pg/L 0.414 pg/L 0.546 pg/L 0.547 pg/L 0.754 pg/L 0.516 pg/L 0.400 pg/L 0.348 pg/L 0.411 pg/L 0.680 pg/L 0.247 pg/L 5.33 pg/L 0.962 pg/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)	1,2,3,4,6,7,8-HPCDD	2.76 pg/L	2.76U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,4,6,7,8-HPCDF	0.446 pg/L	0.446U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,4,7,8,9-HPCDF	0.161 pg/L	0.161U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,4,7,8-HxCDF	0.217 pg/L	0.217U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,6,7,8-HxCDD	0.274 pg/L	0.274U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,6,7,8-HxCDF	0.164 pg/L	0.164U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,7,8,9-HxCDD	0.193 pg/L	0.193U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,7,8,9-HxCDF	0.200 pg/L	0.200U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,7,8-PECDD	0.136 pg/L	0.136U pg/L
EB-SA5DN-SB-081111(RES)	1,2,3,7,8-PECDF	0.0761 pg/L	0.0761U pg/L
EB-SA5DN-SB-081111(RES)	2,3,4,6,7,8-HxCDF	0.126 pg/L	0.126U pg/L
EB-SA5DN-SB-081111(RES)	2,3,4,7,8-PECDF	0.273 pg/L	0.273U pg/L
EB-SA5DN-SB-081111(RES)	2,3,7,8-TCDD	0.152 pg/L	0.152U pg/L
EB-SA5DN-SB-081111(RES)	OCDD	4.40 pg/L	4.40U pg/L
EB-SA5DN-SB-081111(RES)	OCDF	0.433 pg/L	0.433U pg/L

# Method Blank Outlier Report

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2340B371616	8/24/2011 4:16:00 PM	1,2,3,4,6,7,8-HPCDD 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-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 2,3,4,7,8-PECDF OCDD OCDF	0.259 ng/Kg 0.0585 ng/Kg 0.0765 ng/Kg 0.0560 ng/Kg 0.0487 ng/Kg 0.0380 ng/Kg 0.0465 ng/Kg 0.0390 ng/Kg 0.0865 ng/Kg 0.515 ng/Kg 0.109 ng/Kg	DUP24-SA6-QC-081111 SL-006-SA5DN-SB-4.0-5.0 SL-006-SA5DN-SB-9.0-10.0 SL-007-SA5DN-SB-4.0-5.0 SL-033-SA6-SB-2.5-3.5 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-155-SA6-SB-4.0-5.0 SL-174-SA6-SB-2.0-3.0 SL-182-SA6-SB-4.0-5.0 SL-182-SA6-SB-9.0-10.0 SL-183-SA6-SB-4.0-5.0 SL-183-SA6-SB-9.0-10.0 SL-185-SA6-SB-4.0-5.0 SL-185-SA6-SB-9.0-10.0 SL-207-SA5DN-SB-4.0-5.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP24-SA6-QC-081111(RES)	1,2,3,4,6,7,8-HPCDD	0.232 ng/Kg	0.232U ng/Kg
DUP24-SA6-QC-081111(RES)	1,2,3,4,6,7,8-HPCDF	0.0533 ng/Kg	0.0533U ng/Kg
DUP24-SA6-QC-081111(RES)	1,2,3,6,7,8-HxCDF	0.0558 ng/Kg	0.0558U ng/Kg
DUP24-SA6-QC-081111(RES)	1,2,3,7,8,9-HxCDD	0.0534 ng/Kg	0.0534U ng/Kg
DUP24-SA6-QC-081111(RES)	1,2,3,7,8,9-HxCDF	0.0562 ng/Kg	0.0562U ng/Kg
DUP24-SA6-QC-081111(RES)	2,3,4,7,8-PECDF	0.0707 ng/Kg	0.0707U ng/Kg
DUP24-SA6-QC-081111(RES)	OCDD	0.660 ng/Kg	0.660U ng/Kg
DUP24-SA6-QC-081111(RES)	OCDF	0.226 ng/Kg	0.226U ng/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0768 ng/Kg	0.0768U ng/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0663 ng/Kg	0.0663U ng/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0327 ng/Kg	0.0327U ng/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.135 ng/Kg	0.135U ng/Kg
SL-006-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0986 ng/Kg	0.0986U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.361 ng/Kg	0.361U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0536 ng/Kg	0.0536U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0477 ng/Kg	0.0477U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.106 ng/Kg	0.106U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0769 ng/Kg	0.0769U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0945 ng/Kg	0.0945U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0605 ng/Kg	0.0605U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.112 ng/Kg	0.112U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	OCDD	2.44 ng/Kg	2.44U ng/Kg
SL-006-SA5DN-SB-9.0-10.0(RES)	OCDF	0.263 ng/Kg	0.263U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.367 ng/Kg	0.367U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0691 ng/Kg	0.0691U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0606 ng/Kg	0.0606U ng/Kg

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: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-007-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0813 ng/Kg	0.0813U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0976 ng/Kg	0.0976U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0923 ng/Kg	0.0923U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	OCDD	1.40 ng/Kg	1.40U ng/Kg
SL-007-SA5DN-SB-4.0-5.0(RES)	OCDF	0.210 ng/Kg	0.210U ng/Kg
SL-033-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0637 ng/Kg	0.0637U ng/Kg
SL-033-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0799 ng/Kg	0.0799U ng/Kg
SL-033-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-033-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-033-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.248 ng/Kg	0.248U ng/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0633 ng/Kg	0.0633U ng/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0419 ng/Kg	0.0419U ng/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0720 ng/Kg	0.0720U ng/Kg
SL-071-SA5DN-SB-4.0-5.0(RES)	OCDF	0.189 ng/Kg	0.189U ng/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.729 ng/Kg	0.729U ng/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0563 ng/Kg	0.0563U ng/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0310 ng/Kg	0.0310U ng/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0430 ng/Kg	0.0430U ng/Kg
SL-071-SA5DN-SB-9.0-10.0(RES)	OCDF	0.163 ng/Kg	0.163U ng/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.287 ng/Kg	0.287U ng/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0878 ng/Kg	0.0878U ng/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-072-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0802 ng/Kg	0.0802U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.281 ng/Kg	0.281U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0582 ng/Kg	0.0582U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0441 ng/Kg	0.0441U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0497 ng/Kg	0.0497U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.126 ng/Kg	0.126U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0481 ng/Kg	0.0481U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	OCDD	1.13 ng/Kg	1.13U ng/Kg
SL-151-SA6-SB-4.0-5.0(RES)	OCDF	0.181 ng/Kg	0.181U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.313 ng/Kg	0.313U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0921 ng/Kg	0.0921U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0891 ng/Kg	0.0891U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0958 ng/Kg	0.0958U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.218 ng/Kg	0.218U ng/Kg

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-151-SA6-SB-9.0-10.0(RES)	OCDD	0.891 ng/Kg	0.891U ng/Kg
SL-151-SA6-SB-9.0-10.0(RES)	OCDF	0.181 ng/Kg	0.181U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.232 ng/Kg	0.232U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0664 ng/Kg	0.0664U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0694 ng/Kg	0.0694U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0905 ng/Kg	0.0905U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0916 ng/Kg	0.0916U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.150 ng/Kg	0.150U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.110 ng/Kg	0.110U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.139 ng/Kg	0.139U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	OCDD	0.725 ng/Kg	0.725U ng/Kg
SL-155-SA6-SB-4.0-5.0(RES)	OCDF	0.112 ng/Kg	0.112U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.395 ng/Kg	0.395U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.102 ng/Kg	0.102U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0881 ng/Kg	0.0881U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDF	0.128 ng/Kg	0.128U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HxCDF	0.117 ng/Kg	0.117U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HxCDD	0.144 ng/Kg	0.144U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	OCDD	1.06 ng/Kg	1.06U ng/Kg
SL-174-SA6-SB-2.0-3.0(RES)	OCDF	0.147 ng/Kg	0.147U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.362 ng/Kg	0.362U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0898 ng/Kg	0.0898U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0699 ng/Kg	0.0699U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.201 ng/Kg	0.201U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.202 ng/Kg	0.202U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.151 ng/Kg	0.151U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.170 ng/Kg	0.170U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.163 ng/Kg	0.163U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.244 ng/Kg	0.244U ng/Kg
SL-182-SA6-SB-4.0-5.0(RES)	OCDF	0.232 ng/Kg	0.232U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.205 ng/Kg	0.205U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0749 ng/Kg	0.0749U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.154 ng/Kg	0.154U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.121 ng/Kg	0.121U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.183 ng/Kg	0.183U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.242 ng/Kg	0.242U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	OCDD	0.713 ng/Kg	0.713U ng/Kg
SL-182-SA6-SB-9.0-10.0(RES)	OCDF	0.214 ng/Kg	0.214U ng/Kg

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: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-183-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.505 ng/Kg	0.505U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.143 ng/Kg	0.143U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0969 ng/Kg	0.0969U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.131 ng/Kg	0.131U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0731 ng/Kg	0.0731U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.123 ng/Kg	0.123U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0788 ng/Kg	0.0788U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.142 ng/Kg	0.142U ng/Kg
SL-183-SA6-SB-4.0-5.0(RES)	OCDF	0.172 ng/Kg	0.172U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.319 ng/Kg	0.319U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0403 ng/Kg	0.0403U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0560 ng/Kg	0.0560U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0561 ng/Kg	0.0561U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0576 ng/Kg	0.0576U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0471 ng/Kg	0.0471U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	OCDD	0.572 ng/Kg	0.572U ng/Kg
SL-183-SA6-SB-9.0-10.0(RES)	OCDF	0.307 ng/Kg	0.307U ng/Kg
SL-185-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.512 ng/Kg	0.512U ng/Kg
SL-185-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-185-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0581 ng/Kg	0.0581U ng/Kg
SL-185-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0495 ng/Kg	0.0495U ng/Kg
SL-185-SA6-SB-4.0-5.0(RES)	OCDF	0.133 ng/Kg	0.133U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.159 ng/Kg	0.159U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0381 ng/Kg	0.0381U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0597 ng/Kg	0.0597U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0768 ng/Kg	0.0768U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.120 ng/Kg	0.120U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	OCDD	1.04 ng/Kg	1.04U ng/Kg
SL-185-SA6-SB-9.0-10.0(RES)	OCDF	0.214 ng/Kg	0.214U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.287 ng/Kg	0.287U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0816 ng/Kg	0.0816U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0557 ng/Kg	0.0557U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0579 ng/Kg	0.0579U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0791 ng/Kg	0.0791U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0982 ng/Kg	0.0982U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0769 ng/Kg	0.0769U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0923 ng/Kg	0.0923U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	OCDD	1.21 ng/Kg	1.21U ng/Kg
SL-207-SA5DN-SB-4.0-5.0(RES)	OCDF	0.162 ng/Kg	0.162U ng/Kg

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: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
MOISTURE	5.6	5.0	11		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-155-SA6-SB-4.0-5.0	DUP24-SA6-QC-081111			
1,2,3,4,6,7,8-HPCDD	0.232	0.232	0	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.0664	0.0533	22	50.00	
1,2,3,6,7,8-HXCDF	0.0916	0.0558	49	50.00	
OCDD	0.725	0.660	9	50.00	
1,2,3,4,7,8-HxCDD	0.0694	5.18 U	200	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,7,8-HXCDF	0.0905	5.18 U	200	50.00	
1,2,3,6,7,8-HxCDD	0.0909	5.18 U	200	50.00	
1,2,3,7,8,9-HxCDD	0.150	0.0534	95	50.00	
1,2,3,7,8,9-HXCDF	0.110	0.0562	65	50.00	
1,2,3,7,8-PECDD	0.185	0.0893	70	50.00	
1,2,3,7,8-PECDF	0.164	5.18 U	200	50.00	
2,3,4,6,7,8-HXCDF	0.0675	5.18 U	200	50.00	
2,3,4,7,8-PECDF	0.139	0.0707	65	50.00	
OCDF	0.112	0.226	67	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DN-SB-081111	1,2,3,4,6,7,8-HPCDD	JB	2.76	10.6	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.446	10.6	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JB	0.161	10.6	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.217	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.274	10.6	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.164	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.193	10.6	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.200	10.6	PQL	pg/L	
	1,2,3,7,8-PECDD	JB	0.136	10.6	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.0761	10.6	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.126	10.6	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.273	10.6	PQL	pg/L	
	2,3,7,8-TCDD	JBQ	0.152	2.11	PQL	pg/L	
	OCDD	JB	4.40	21.1	PQL	pg/L	
	OCDF	JB	0.433	21.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP24-SA6-QC-081111	1,2,3,4,6,7,8-HPCDD	JB	0.232	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0533	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0558	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0534	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0562	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0893	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0707	5.18	PQL	ng/Kg	
	OCDD	JB	0.660	10.4	PQL	ng/Kg	
SL-006-SA5DN-SB-4.0-5.0	OCDF	JBQ	0.226	10.4	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDD	JB	1.55	5.66	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.319	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0768	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0663	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.105	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0327	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.135	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0986	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0828	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0468	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0584	5.66	PQL	ng/Kg	
	OCDF	JBQ	0.827	11.3	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-006-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.361	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0869	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0536	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0477	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.106	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.0590	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0769	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0945	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0605	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.116	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0939	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	J	0.0503	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.112	5.57	PQL	ng/Kg	
	OCDD	JB	2.44	11.1	PQL	ng/Kg	
	OCDF	JB	0.263	11.1	PQL	ng/Kg	
SL-007-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.367	5.82	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0691	5.82	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0606	5.82	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0813	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.219	5.82	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0976	5.82	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.375	5.82	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0843	5.82	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JQ	0.0768	5.82	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0923	5.82	PQL	ng/Kg	
	OCDD	JBQ	1.40	11.6	PQL	ng/Kg	
	OCDF	JBQ	0.210	11.6	PQL	ng/Kg	
SL-033-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	4.60	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.947	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0637	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0799	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.196	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.114	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.237	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.135	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0952	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JQ	0.134	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.248	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.112	1.04	PQL	ng/Kg	
	OCDF	JB	2.48	10.4	PQL	ng/Kg	
SL-071-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	1.32	5.71	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0633	5.71	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0419	5.71	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.0705	5.71	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0720	5.71	PQL	ng/Kg	
	OCDF	JB	0.189	11.4	PQL	ng/Kg	
SL-071-SA5DN-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.729	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.0563	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0310	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0528	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JQ	0.0557	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0430	5.53	PQL	ng/Kg	
	OCDD	JB	2.98	11.1	PQL	ng/Kg	
	OCDF	JB	0.163	11.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-072-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	2.30	5.93	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.287	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.950	5.93	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0878	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.477	5.93	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.120	5.93	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0947	5.93	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.220	5.93	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0802	5.93	PQL	ng/Kg	
	OCDF	JB	5.56	11.9	PQL	ng/Kg	
SL-151-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.281	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0582	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0441	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0504	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0497	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.126	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0458	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0398	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0481	5.20	PQL	ng/Kg	
	OCDD	JB	1.13	10.4	PQL	ng/Kg	
	OCDF	JB	0.181	10.4	PQL	ng/Kg	
SL-151-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.313	5.59	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0921	5.59	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0649	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0891	5.59	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.114	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0887	5.59	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0958	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.102	5.59	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.127	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.274	5.59	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.213	5.59	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.0772	5.59	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.218	5.59	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.128	1.12	PQL	ng/Kg	
	OCDD	JBQ	0.891	11.2	PQL	ng/Kg	
	OCDF	JB	0.181	11.2	PQL	ng/Kg	
SL-155-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.232	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0664	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0694	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0905	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.0909	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0916	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.150	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.110	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.185	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.164	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0675	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.139	5.28	PQL	ng/Kg	
	OCDD	JB	0.725	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.112	10.6	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-174-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.395	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.102	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0881	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.128	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.154	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.117	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.144	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.119	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.103	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.113	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.163	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.101	1.04	PQL	ng/Kg	
	OCDD	JB	1.06	10.4	PQL	ng/Kg	
	OCDF	JBQ	0.147	10.4	PQL	ng/Kg	
SL-182-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.362	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0898	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0699	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.201	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.202	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.131	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.151	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.170	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.163	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.146	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.325	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JQ	0.126	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.244	5.25	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.128	1.05	PQL	ng/Kg	
SL-182-SA6-SB-9.0-10.0	OCDD	JB	3.62	10.5	PQL	ng/Kg	J (all detects)
	OCDF	JB	0.232	10.5	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDD	JB	0.205	5.60	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0749	5.60	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.108	5.60	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.154	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0984	5.60	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.197	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.121	5.60	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.183	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.287	5.60	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.159	5.60	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	J	0.0407	5.60	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.242	5.60	PQL	ng/Kg	
	OCDD	JBQ	0.713	11.2	PQL	ng/Kg	
	OCDF	JBQ	0.214	11.2	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-183-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.505	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.143	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0969	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.131	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.136	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0731	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.123	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0788	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.203	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.233	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JQ	0.0800	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.142	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.136	1.10	PQL	ng/Kg	
	OCDD	JB	3.53	11.0	PQL	ng/Kg	
	OCDF	JB	0.172	11.0	PQL	ng/Kg	
SL-183-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.319	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0403	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0560	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0561	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0576	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	J	0.0399	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0471	5.53	PQL	ng/Kg	
	OCDD	JB	0.572	11.1	PQL	ng/Kg	
SL-185-SA6-SB-4.0-5.0	OCDF	JB	0.307	11.1	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDD	JBQ	0.512	5.52	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0569	5.52	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0581	5.52	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.475	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0631	5.52	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0752	5.52	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0495	5.52	PQL	ng/Kg	
SL-185-SA6-SB-9.0-10.0	2,3,7,8-TCDF	J	0.0786	1.10	PQL	ng/Kg	J (all detects)
	OCDD	JB	3.90	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.133	11.0	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDD	JB	0.159	5.57	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0381	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0597	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.0760	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0768	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.120	5.57	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.0961	1.11	PQL	ng/Kg	
	OCDD	JB	1.04	11.1	PQL	ng/Kg	
	OCDF	JBQ	0.214	11.1	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX127

Laboratory: LL

EDD Filename: DX127\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-207-SA5DN-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.287	5.66	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0816	5.66	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0557	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0579	5.66	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0791	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.106	5.66	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0982	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0769	5.66	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0923	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.180	5.66	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.218	5.66	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JQ	0.0740	5.66	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.163	5.66	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.105	1.13	PQL	ng/Kg	
	OCDD	JB	1.21	11.3	PQL	ng/Kg	
	OCDF	JB	0.162	11.3	PQL	ng/Kg	



# **SAMPLE DELIVERY GROUP**

**DX128**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380503	N	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380506	N	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380507	MS	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380508	MSD	METHOD	1613B	III
17-Aug-2011	DUP12-SA6-QC-081711	6380510	FD	METHOD	1613B	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380504	N	METHOD	1613B	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380505	N	METHOD	1613B	III
17-Aug-2011	EB-SA6-SB-081711	6380511	EB	METHOD	1613B	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380509	N	METHOD	1613B	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382932	N	METHOD	1613B	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382933	N	METHOD	1613B	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384486	N	METHOD	1613B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384477	N	METHOD	1613B	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384485	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384482	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384483	N	METHOD	1613B	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384481	N	METHOD	1613B	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384480	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384484	N	METHOD	1613B	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384478	N	METHOD	1613B	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384479	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>AQ</b>

Sample ID: EB-SA6-SB-081711

Collected: 8/17/2011 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.81	JBQ	0.554	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.562	JBQ	0.236	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.367	JBQ	0.274	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.405	JBQ	0.372	MDL	9.56	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.277	JBQ	0.185	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDD	0.522	JBQ	0.373	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	0.316	JBQ	0.186	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.710	JBQ	0.490	MDL	9.56	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.303	JBQ	0.172	MDL	9.56	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.740	JB	0.233	MDL	9.56	PQL	pg/L	U	B
OCDD	4.18	JBQ	0.374	MDL	19.1	PQL	pg/L	U	B
OCDF	0.569	JBQ	0.553	MDL	19.1	PQL	pg/L	U	B

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP12-SA6-QC-081711

Collected: 8/17/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.310	JBQ	0.0390	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.156	JB	0.0139	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.230	J	0.0482	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDF	0.339	JB	0.0299	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HxCDD	0.244	JBQ	0.0475	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDF	0.344	JB	0.0276	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HxCDD	0.230	JB	0.0452	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HxCDF	0.229	JB	0.0307	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.483	JBQ	0.0624	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.585	JB	0.0344	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HxCDF	0.190	JBQ	0.0277	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.442	JB	0.0332	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0807	JQ	0.0802	MDL	1.06	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.110	JQ	0.0573	MDL	1.06	PQL	ng/Kg	J	Z, FD
OCDD	0.299	JBQ	0.0365	MDL	10.6	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: DUP12-SA6-QC-081711

Collected: 8/17/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.208	J	0.0569	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-007-SA5DN-SS-0.0-0.5

Collected: 8/22/2011 8:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.19	JB	0.0378	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	1.57	J	0.0433	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.304	JQ	0.0642	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.739	JB	0.0634	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.15	JB	0.0751	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.621	JB	0.0629	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.04	JB	0.0807	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.94	JB	0.0746	MDL	5.55	PQL	ng/Kg	J	Z
OCDF	4.88	J	0.0558	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-154-SA6-SB-3.0-4.0

Collected: 8/17/2011 7:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.382	JB	0.0461	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0307	JBQ	0.0121	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0300	JQ	0.0263	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0301	JB	0.0197	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0292	JBQ	0.0169	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0723	JBQ	0.0342	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0295	JBQ	0.0233	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0293	JBQ	0.0186	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0537	JBQ	0.0241	MDL	5.24	PQL	ng/Kg	U	B
OCDD	4.14	JB	0.0432	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.0760	JQ	0.0708	MDL	10.5	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.443	JB	0.0448	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.133	JBQ	0.0139	MDL	5.34	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

1/3/2012 10:32:56 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0450	JQ	0.0232	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.159	JQ	0.0446	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.210	JB	0.0271	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.142	JBQ	0.0432	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.186	JB	0.0248	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.229	JB	0.0432	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.137	JB	0.0278	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.212	JB	0.0727	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0933	JBQ	0.0248	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.313	JBQ	0.0288	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0910	JQ	0.0841	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0765	JQ	0.0530	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	1.07	JB	0.0335	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-215-SA6-SB-4.0-5.0

Collected: 8/22/2011 8:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.27	JB	0.0609	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.539	JB	0.0189	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0675	JQ	0.0287	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.119	J	0.0444	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0803	JBQ	0.0287	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.193	JB	0.0450	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0649	JBQ	0.0257	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.212	JB	0.0434	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0339	JBQ	0.0322	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0891	JB	0.0608	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0542	JB	0.0263	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0727	JBQ	0.0292	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0689	JQ	0.0617	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.81	JQ	0.0649	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-221-SA6-SB-1.0-2.0

Collected: 8/17/2011 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.06	JBQ	0.0597	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0163	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0420	JBQ	0.0230	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.102	JBQ	0.0381	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0361	JBQ	0.0209	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0801	JBQ	0.0409	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0409	JBQ	0.0278	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0302	JBQ	0.0221	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0437	JBQ	0.0256	MDL	5.29	PQL	ng/Kg	U	B
OCDF	0.512	JQ	0.0683	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-223-SA6-SB-2.5-3.5

Collected: 8/17/2011 11:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.358	JB	0.0611	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0574	JBQ	0.0180	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0303	JB	0.0270	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0970	JBQ	0.0389	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0868	JBQ	0.0279	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0875	JBQ	0.0742	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0888	JB	0.0347	MDL	5.00	PQL	ng/Kg	U	B
OCDD	2.16	JB	0.0413	MDL	10.0	PQL	ng/Kg	J	Z
OCDF	0.367	JQ	0.0953	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0

Collected: 8/17/2011 10:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.131	JBQ	0.0533	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.0332	JB	0.0182	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0433	U	0.0433	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0268	U	0.0268	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDD	0.0414	U	0.0414	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDF	0.0232	U	0.0232	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,7,8,9-HXCDD	0.0949	JBQ	0.0389	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0239	U	0.0239	MDL	5.26	PQL	ng/Kg	UJ	FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-224-SA6-SB-3.0-4.0

Collected: 8/17/2011 10:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0659	U	0.0659	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0312	JB	0.0292	MDL	5.26	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0209	U	0.0209	MDL	5.26	PQL	ng/Kg	UJ	FD
2,3,4,7,8-PECDF	0.0298	JBQ	0.0287	MDL	5.26	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0769	U	0.0769	MDL	1.05	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0635	U	0.0635	MDL	1.05	PQL	ng/Kg	UJ	FD
OCDD	0.263	JBQ	0.0435	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.133	JQ	0.0823	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-226-SA6-SB-3.5-4.5

Collected: 8/17/2011 2:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.946	JB	0.0518	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.219	JB	0.0157	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0948	J	0.0255	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.165	J	0.0376	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.196	JB	0.0298	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.230	JB	0.0376	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.189	JBQ	0.0272	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.233	JBQ	0.0357	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.225	JB	0.0307	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.229	JB	0.0620	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.344	JB	0.0310	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.128	JBQ	0.0275	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.314	JB	0.0289	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.170	JQ	0.0763	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	0.539	J	0.0608	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-241-SA6-SB-4.0-5.0

Collected: 8/22/2011 12:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.282	JBQ	0.0363	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0463	JBQ	0.0109	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0399	J	0.0165	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0506	JB	0.0187	MDL	5.21	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-241-SA6-SB-4.0-5.0

**Collected:** 8/22/2011 12:12:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0570	JB	0.0255	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0240	JB	0.0168	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0388	JBQ	0.0248	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0320	JBQ	0.0194	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0225	JBQ	0.0218	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0267	JBQ	0.0162	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0522	JB	0.0206	MDL	5.21	PQL	ng/Kg	U	B
OCDD	1.56	JB	0.0329	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.107	J	0.0465	MDL	10.4	PQL	ng/Kg	J	Z

**Sample ID:** SL-241-SA6-SB-9.0-10.0

**Collected:** 8/22/2011 12:13:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.283	JB	0.0420	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0462	JB	0.0103	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0313	JQ	0.0155	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0239	JBQ	0.0190	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0483	JB	0.0293	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0221	JBQ	0.0172	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0861	JBQ	0.0221	MDL	5.37	PQL	ng/Kg	U	B
OCDD	0.480	JB	0.0321	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.147	JQ	0.0565	MDL	10.7	PQL	ng/Kg	J	Z

**Sample ID:** SL-242-SA6-SB-4.0-5.0

**Collected:** 8/22/2011 11:05:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.315	JB	0.0422	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0498	JB	0.0109	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0427	JQ	0.0183	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0257	JB	0.0196	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.114	JBQ	0.0288	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0239	JBQ	0.0175	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.218	JB	0.0276	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.216	JB	0.0206	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0640	JBQ	0.0218	MDL	5.29	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-242-SA6-SB-4.0-5.0

Collected: 8/22/2011 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0301	JBQ	0.0179	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0342	JB	0.0213	MDL	5.29	PQL	ng/Kg	U	B
OCDD	2.25	JB	0.0320	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.100	JQ	0.0536	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-242-SA6-SB-9.0-10.0

Collected: 8/22/2011 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.365	JB	0.0421	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JBQ	0.0137	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0507	JQ	0.0223	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0342	JQ	0.0341	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0763	JBQ	0.0253	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0837	JBQ	0.0348	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0473	JBQ	0.0232	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0946	JBQ	0.0344	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0529	JBQ	0.0264	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0885	JBQ	0.0537	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.195	JBQ	0.0292	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0765	JBQ	0.0232	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JB	0.0264	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0834	J	0.0686	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0563	JQ	0.0512	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	1.41	JB	0.0368	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.166	JQ	0.0489	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0

Collected: 8/22/2011 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.969	JB	0.0452	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JB	0.0120	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0667	J	0.0254	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0900	J	0.0345	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.196	JB	0.0269	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.156	JB	0.0362	MDL	5.08	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-279-SA6-SB-1.0-2.0

Collected: 8/22/2011 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.169	JBQ	0.0233	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.151	JB	0.0351	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.162	JB	0.0289	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.222	JB	0.0450	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.324	JB	0.0250	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.111	JBQ	0.0240	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.301	JB	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0657	J	0.0533	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0889	J	0.0408	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	9.19	JB	0.0400	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.372	JQ	0.0524	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-279-SA6-SB-4.0-5.0

Collected: 8/22/2011 11:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.389	JBQ	0.0458	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.157	JB	0.0144	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0531	JQ	0.0258	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.138	JQ	0.0376	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.178	JB	0.0270	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.150	JBQ	0.0383	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.142	JBQ	0.0234	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.131	JBQ	0.0382	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.153	JBQ	0.0259	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.315	JBQ	0.0619	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.334	JB	0.0293	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.119	JBQ	0.0243	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.320	JB	0.0278	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.121	J	0.0741	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0977	JQ	0.0489	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	1.95	JB	0.0362	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.161	JQ	0.0628	MDL	10.3	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

1/3/2012 10:32:56 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-279-SA6-SB-9.0-10.0

Collected: 8/22/2011 11:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.57	JB	0.0484	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.271	JBQ	0.0158	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0889	J	0.0316	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.116	JQ	0.0368	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.211	JB	0.0243	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.146	JB	0.0368	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.145	JBQ	0.0213	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.125	JBQ	0.0370	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.124	JB	0.0274	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.126	JBQ	0.0511	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.230	JB	0.0270	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0814	JB	0.0232	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.224	JBQ	0.0258	MDL	5.39	PQL	ng/Kg	U	B
OCDF	0.654	JQ	0.0621	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-310-SA6-SB-4.0-5.0

Collected: 8/22/2011 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.28	JB	0.0348	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.301	JB	0.0139	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0415	JB	0.0205	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0491	JB	0.0154	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.170	JBQ	0.0246	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0273	JB	0.0135	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.210	JBQ	0.0230	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.113	JBQ	0.0163	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0304	JBQ	0.0181	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0750	JBQ	0.0135	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0322	JBQ	0.0138	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0637	JBQ	0.0138	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0246	J	0.0218	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.781	JB	0.0285	MDL	11.0	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.46	JB	0.0315	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.491	J	0.0494	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.458	JQ	0.0561	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.353	JB	0.0351	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.537	JBQ	0.0545	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.280	JB	0.0316	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.370	JB	0.0523	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.226	JBQ	0.0343	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.615	JB	0.0524	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.516	JBQ	0.0277	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.264	JB	0.0306	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.464	JB	0.0256	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.163	JQ	0.0548	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0808	J	0.0416	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	4.83	J	0.0503	MDL	10.4	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX129

Laboratory: LL

EDD Filename: DX129\_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: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX129

# Method Blank Outlier Report

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2340B371734	8/23/2011 5:34:00 PM	1,2,3,4,6,7,8-HPCDD 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 OCDD OCDF	2.80 pg/L 0.632 pg/L 0.512 pg/L 0.765 pg/L 0.547 pg/L 0.856 pg/L 0.489 pg/L 0.876 pg/L 0.588 pg/L 0.858 pg/L 0.562 pg/L 1.02 pg/L 6.56 pg/L 2.84 pg/L	EB-SA6-SB-081711

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-081711(RES)	1,2,3,4,6,7,8-HPCDD	2.81 pg/L	2.81U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,6,7,8-HPCDF	0.562 pg/L	0.562U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,7,8,9-HPCDF	0.367 pg/L	0.367U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,7,8-HxCDD	0.405 pg/L	0.405U pg/L
EB-SA6-SB-081711(RES)	1,2,3,6,7,8-HxCDF	0.277 pg/L	0.277U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8,9-HxCDD	0.522 pg/L	0.522U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8,9-HxCDF	0.316 pg/L	0.316U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8-PECDD	0.710 pg/L	0.710U pg/L
EB-SA6-SB-081711(RES)	2,3,4,6,7,8-HxCDF	0.303 pg/L	0.303U pg/L
EB-SA6-SB-081711(RES)	2,3,4,7,8-PECDF	0.740 pg/L	0.740U pg/L
EB-SA6-SB-081711(RES)	OCDD	4.18 pg/L	4.18U pg/L
EB-SA6-SB-081711(RES)	OCDF	0.569 pg/L	0.569U pg/L

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2380B370305	8/30/2011 3:05:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-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	0.236 ng/Kg 0.0494 ng/Kg 0.0519 ng/Kg 0.0513 ng/Kg 0.0537 ng/Kg 0.0428 ng/Kg 0.0356 ng/Kg 0.0682 ng/Kg 0.0365 ng/Kg 0.0234 ng/Kg 0.0544 ng/Kg 0.426 ng/Kg	DUP12-SA6-QC-081711 SL-007-SA5DN-SS-0.0-0.5 SL-154-SA6-SB-3.0-4.0 SL-214-SA6-SB-1.0-2.0 SL-215-SA6-SB-4.0-5.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5 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-315-SA6-SB-3.0-4.0

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2410B372134	8/30/2011 9:34:00 PM	1,2,3,4,6,7,8-HPCDD 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	0.173 ng/Kg 0.0734 ng/Kg 0.0294 ng/Kg 0.0282 ng/Kg 0.0284 ng/Kg 0.0221 ng/Kg 0.0303 ng/Kg 0.0198 ng/Kg 0.0230 ng/Kg 0.0366 ng/Kg 0.0276 ng/Kg 0.0245 ng/Kg 0.0636 ng/Kg 0.349 ng/Kg 0.0879 ng/Kg	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
DUP12-SA6-QC-081711(RES)	1,2,3,4,6,7,8-HPCDD	0.310 ng/Kg	0.310U ng/Kg
DUP12-SA6-QC-081711(RES)	1,2,3,4,6,7,8-HPCDF	0.156 ng/Kg	0.156U ng/Kg
DUP12-SA6-QC-081711(RES)	1,2,3,6,7,8-HxCDD	0.244 ng/Kg	0.244U ng/Kg
DUP12-SA6-QC-081711(RES)	OCDD	0.299 ng/Kg	0.299U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.382 ng/Kg	0.382U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HxCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HxCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HxCDF	0.0295 ng/Kg	0.0295U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HxCDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0537 ng/Kg	0.0537U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.443 ng/Kg	0.443U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HxCDF	0.210 ng/Kg	0.210U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HxCDD	0.142 ng/Kg	0.142U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HxCDF	0.186 ng/Kg	0.186U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HxCDF	0.137 ng/Kg	0.137U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.212 ng/Kg	0.212U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HxCDF	0.0933 ng/Kg	0.0933U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	OCDD	1.07 ng/Kg	1.07U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0803 ng/Kg	0.0803U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.193 ng/Kg	0.193U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.212 ng/Kg	0.212U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0891 ng/Kg	0.0891U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg

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: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-221-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.0801 ng/Kg	0.0801U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.0409 ng/Kg	0.0409U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0302 ng/Kg	0.0302U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0437 ng/Kg	0.0437U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.358 ng/Kg	0.358U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0574 ng/Kg	0.0574U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0970 ng/Kg	0.0970U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0875 ng/Kg	0.0875U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0888 ng/Kg	0.0888U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.131 ng/Kg	0.131U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0332 ng/Kg	0.0332U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0949 ng/Kg	0.0949U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0312 ng/Kg	0.0312U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	OCDD	0.263 ng/Kg	0.263U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.946 ng/Kg	0.946U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.219 ng/Kg	0.219U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.230 ng/Kg	0.230U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.229 ng/Kg	0.229U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.282 ng/Kg	0.282U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0506 ng/Kg	0.0506U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0240 ng/Kg	0.0240U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0388 ng/Kg	0.0388U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	OCDD	1.56 ng/Kg	1.56U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.283 ng/Kg	0.283U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0462 ng/Kg	0.0462U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg

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: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-241-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0483 ng/Kg	0.0483U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0861 ng/Kg	0.0861U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	OCDD	0.480 ng/Kg	0.480U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.315 ng/Kg	0.315U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0640 ng/Kg	0.0640U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0342 ng/Kg	0.0342U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.365 ng/Kg	0.365U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0763 ng/Kg	0.0763U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0837 ng/Kg	0.0837U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0473 ng/Kg	0.0473U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0946 ng/Kg	0.0946U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0885 ng/Kg	0.0885U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0765 ng/Kg	0.0765U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	OCDD	1.41 ng/Kg	1.41U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.969 ng/Kg	0.969U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDD	0.156 ng/Kg	0.156U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.151 ng/Kg	0.151U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.222 ng/Kg	0.222U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.389 ng/Kg	0.389U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.157 ng/Kg	0.157U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.150 ng/Kg	0.150U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.131 ng/Kg	0.131U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.153 ng/Kg	0.153U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.315 ng/Kg	0.315U ng/Kg

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: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-4.0-5.0(RES)	OCDD	1.95 ng/Kg	1.95U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.211 ng/Kg	0.211U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.146 ng/Kg	0.146U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.125 ng/Kg	0.125U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.126 ng/Kg	0.126U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0814 ng/Kg	0.0814U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.301 ng/Kg	0.301U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0491 ng/Kg	0.0491U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0273 ng/Kg	0.0273U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0304 ng/Kg	0.0304U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0750 ng/Kg	0.0750U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0637 ng/Kg	0.0637U ng/Kg



# Field Duplicate RPD Report

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

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

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
OCDD	0.263	0.299	13	50.00	No Qualifiers Applied
OCDF	0.133	0.208	44	50.00	
1,2,3,4,6,7,8-HPCDD	0.131	0.310	81	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	0.0332	0.156	130	50.00	
1,2,3,4,7,8-HxCDD	5.26 U	0.230	200	50.00	
1,2,3,4,7,8-HxCDF	5.26 U	0.339	200	50.00	
1,2,3,6,7,8-HxCDD	5.26 U	0.244	200	50.00	
1,2,3,6,7,8-HxCDF	5.26 U	0.344	200	50.00	
1,2,3,7,8,9-HxCDD	0.0949	0.230	83	50.00	
1,2,3,7,8,9-HxCDF	5.26 U	0.229	200	50.00	
1,2,3,7,8-PECDD	5.26 U	0.483	200	50.00	
1,2,3,7,8-PECDF	0.0312	0.585	180	50.00	
2,3,4,6,7,8-HxCDF	5.26 U	0.190	200	50.00	
2,3,4,7,8-PECDF	0.0298	0.442	175	50.00	
2,3,7,8-TCDD	1.05 U	0.0807	200	50.00	
2,3,7,8-TCDF	1.05 U	0.110	200	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-081711	1,2,3,4,6,7,8-HPCDD	JBQ	2.81	9.56	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.562	9.56	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.367	9.56	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.405	9.56	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.277	9.56	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.522	9.56	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.316	9.56	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.710	9.56	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.303	9.56	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.740	9.56	PQL	pg/L	
	OCDD	JBQ	4.18	19.1	PQL	pg/L	
	OCDF	JBQ	0.569	19.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	1,2,3,4,6,7,8-HPCDD	JBQ	0.310	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.156	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.230	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.339	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.244	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.344	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.230	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.229	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.483	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.585	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.190	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.442	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0807	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.110	1.06	PQL	ng/Kg	
	OCDD	JBQ	0.299	10.6	PQL	ng/Kg	
	OCDF	J	0.208	10.6	PQL	ng/Kg	
SL-007-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.19	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	J	1.57	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.304	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.739	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.15	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.621	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.04	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.94	5.55	PQL	ng/Kg	
	OCDF	J	4.88	11.1	PQL	ng/Kg	
SL-154-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.382	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0307	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0300	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0301	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0292	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0723	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0295	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0293	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0537	5.24	PQL	ng/Kg	
	OCDD	JB	4.14	10.5	PQL	ng/Kg	
	OCDF	JQ	0.0760	10.5	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-214-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	0.443	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.133	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0450	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.159	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.210	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.142	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.186	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.229	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.137	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.212	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0933	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.313	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0910	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0765	1.07	PQL	ng/Kg	
	OCDD	JB	1.07	10.7	PQL	ng/Kg	
SL-215-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.27	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.539	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0675	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.119	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0803	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.193	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0649	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.212	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0339	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0891	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0542	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0727	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0689	1.11	PQL	ng/Kg	
	OCDF	JQ	1.81	11.1	PQL	ng/Kg	
SL-221-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JBQ	2.06	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0420	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.102	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0361	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0801	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0409	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0302	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0437	5.29	PQL	ng/Kg	
	OCDF	JQ	0.512	10.6	PQL	ng/Kg	
SL-223-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.358	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0574	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0303	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0970	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0868	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0875	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0888	5.00	PQL	ng/Kg	
	OCDD	JB	2.16	10.0	PQL	ng/Kg	
SL-224-SA6-SB-3.0-4.0	OCDF	JQ	0.367	10.0	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDD	JBQ	0.131	5.26	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0332	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0949	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0312	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0298	5.26	PQL	ng/Kg	
	OCDD	JBQ	0.263	10.5	PQL	ng/Kg	
	OCDF	JQ	0.133	10.5	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-226-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.946	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.219	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0948	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.165	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.196	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.230	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.189	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.233	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.225	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.229	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.344	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.128	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.314	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.170	1.04	PQL	ng/Kg	
	OCDF	J	0.539	10.4	PQL	ng/Kg	
SL-241-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.282	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0463	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0399	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0506	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0570	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0240	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0388	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0320	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0225	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0267	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0522	5.21	PQL	ng/Kg	
	OCDD	JB	1.56	10.4	PQL	ng/Kg	
	OCDF	J	0.107	10.4	PQL	ng/Kg	
SL-241-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.283	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0462	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0313	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0239	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0483	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0221	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0861	5.37	PQL	ng/Kg	
	OCDD	JB	0.480	10.7	PQL	ng/Kg	
	OCDF	JQ	0.147	10.7	PQL	ng/Kg	
SL-242-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.315	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0498	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0427	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0257	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.114	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0239	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.218	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.216	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0640	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0301	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0342	5.29	PQL	ng/Kg	
	OCDD	JB	2.25	10.6	PQL	ng/Kg	
	OCDF	JQ	0.100	10.6	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-242-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.365	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.122	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0507	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0342	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0763	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0837	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0473	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0946	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0529	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0885	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.195	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0765	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0834	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0563	1.05	PQL	ng/Kg	
	OCDD	JB	1.41	10.5	PQL	ng/Kg	
	OCDF	JQ	0.166	10.5	PQL	ng/Kg	
SL-279-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	0.969	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.166	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0667	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0900	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.196	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.156	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.169	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.151	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.162	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.222	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.324	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.111	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.301	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0657	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0889	1.02	PQL	ng/Kg	
	OCDD	JB	9.19	10.2	PQL	ng/Kg	
	OCDF	JQ	0.372	10.2	PQL	ng/Kg	
SL-279-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.389	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.157	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0531	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.138	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.178	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.150	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.142	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.131	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.153	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.315	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.334	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.119	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.320	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.121	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0977	1.03	PQL	ng/Kg	
	OCDD	JB	1.95	10.3	PQL	ng/Kg	
	OCDF	JQ	0.161	10.3	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-279-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.57	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.271	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0889	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.116	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.211	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.146	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.145	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.125	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.124	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.126	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.230	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0814	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.224	5.39	PQL	ng/Kg	
	OCDF	JQ	0.654	10.8	PQL	ng/Kg	
SL-310-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.28	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.301	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0415	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0491	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.170	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0273	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.210	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.113	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0304	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0750	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0322	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0637	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0246	1.10	PQL	ng/Kg	
	OCDF	JB	0.781	11.0	PQL	ng/Kg	
SL-315-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDF	JB	2.46	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	J	0.491	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.458	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.353	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.537	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.280	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.370	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.226	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.615	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.516	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.264	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.464	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.163	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0808	1.04	PQL	ng/Kg	
	OCDF	J	4.83	10.4	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX129**

## **Attachment I**

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



## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Aug-2011	SL-154-SA6-SB-3.0-4.0	6380503	N	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0	6380506	N	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MS	6380507	MS	METHOD	1613B	III
17-Aug-2011	SL-224-SA6-SB-3.0-4.0MSD	6380508	MSD	METHOD	1613B	III
17-Aug-2011	DUP12-SA6-QC-081711	6380510	FD	METHOD	1613B	III
17-Aug-2011	SL-221-SA6-SB-1.0-2.0	6380504	N	METHOD	1613B	III
17-Aug-2011	SL-223-SA6-SB-2.5-3.5	6380505	N	METHOD	1613B	III
17-Aug-2011	EB-SA6-SB-081711	6380511	EB	METHOD	1613B	III
17-Aug-2011	SL-226-SA6-SB-3.5-4.5	6380509	N	METHOD	1613B	III
19-Aug-2011	SL-315-SA6-SB-3.0-4.0	6382932	N	METHOD	1613B	III
19-Aug-2011	SL-214-SA6-SB-1.0-2.0	6382933	N	METHOD	1613B	III
22-Aug-2011	SL-007-SA5DN-SS-0.0-0.5	6384486	N	METHOD	1613B	III
22-Aug-2011	SL-215-SA6-SB-4.0-5.0	6384477	N	METHOD	1613B	III
22-Aug-2011	SL-310-SA6-SB-4.0-5.0	6384485	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-1.0-2.0	6384482	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-4.0-5.0	6384483	N	METHOD	1613B	III
22-Aug-2011	SL-242-SA6-SB-9.0-10.0	6384481	N	METHOD	1613B	III
22-Aug-2011	SL-242-SA6-SB-4.0-5.0	6384480	N	METHOD	1613B	III
22-Aug-2011	SL-279-SA6-SB-9.0-10.0	6384484	N	METHOD	1613B	III
22-Aug-2011	SL-241-SA6-SB-4.0-5.0	6384478	N	METHOD	1613B	III
22-Aug-2011	SL-241-SA6-SB-9.0-10.0	6384479	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>AQ</b>

Sample ID: EB-SA6-SB-081711

Collected: 8/17/2011 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.81	JBQ	0.554	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	0.562	JBQ	0.236	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.367	JBQ	0.274	MDL	9.56	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.405	JBQ	0.372	MDL	9.56	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.277	JBQ	0.185	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDD	0.522	JBQ	0.373	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	0.316	JBQ	0.186	MDL	9.56	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.710	JBQ	0.490	MDL	9.56	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.303	JBQ	0.172	MDL	9.56	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.740	JB	0.233	MDL	9.56	PQL	pg/L	U	B
OCDD	4.18	JBQ	0.374	MDL	19.1	PQL	pg/L	U	B
OCDF	0.569	JBQ	0.553	MDL	19.1	PQL	pg/L	U	B

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP12-SA6-QC-081711

Collected: 8/17/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.310	JBQ	0.0390	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.156	JB	0.0139	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.230	J	0.0482	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HxCDF	0.339	JB	0.0299	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,6,7,8-HxCDD	0.244	JBQ	0.0475	MDL	5.30	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDF	0.344	JB	0.0276	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HxCDD	0.230	JB	0.0452	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8,9-HxCDF	0.229	JB	0.0307	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.483	JBQ	0.0624	MDL	5.30	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.585	JB	0.0344	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HxCDF	0.190	JBQ	0.0277	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	0.442	JB	0.0332	MDL	5.30	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0807	JQ	0.0802	MDL	1.06	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	0.110	JQ	0.0573	MDL	1.06	PQL	ng/Kg	J	Z, FD
OCDD	0.299	JBQ	0.0365	MDL	10.6	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

1/3/2012 10:32:56 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: DUP12-SA6-QC-081711

Collected: 8/17/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.208	J	0.0569	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-007-SA5DN-SS-0.0-0.5

Collected: 8/22/2011 8:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.19	JB	0.0378	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	1.57	J	0.0433	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.304	JQ	0.0642	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.739	JB	0.0634	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	3.15	JB	0.0751	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.621	JB	0.0629	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	2.04	JB	0.0807	MDL	5.55	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.94	JB	0.0746	MDL	5.55	PQL	ng/Kg	J	Z
OCDF	4.88	J	0.0558	MDL	11.1	PQL	ng/Kg	J	Z

Sample ID: SL-154-SA6-SB-3.0-4.0

Collected: 8/17/2011 7:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.382	JB	0.0461	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0307	JBQ	0.0121	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0300	JQ	0.0263	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0301	JB	0.0197	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0292	JBQ	0.0169	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0723	JBQ	0.0342	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0295	JBQ	0.0233	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0293	JBQ	0.0186	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0537	JBQ	0.0241	MDL	5.24	PQL	ng/Kg	U	B
OCDD	4.14	JB	0.0432	MDL	10.5	PQL	ng/Kg	J	Z
OCDF	0.0760	JQ	0.0708	MDL	10.5	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.443	JB	0.0448	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.133	JBQ	0.0139	MDL	5.34	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

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

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

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0450	JQ	0.0232	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.159	JQ	0.0446	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.210	JB	0.0271	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.142	JBQ	0.0432	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.186	JB	0.0248	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.229	JB	0.0432	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.137	JB	0.0278	MDL	5.34	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.212	JB	0.0727	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0933	JBQ	0.0248	MDL	5.34	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.313	JBQ	0.0288	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0910	JQ	0.0841	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0765	JQ	0.0530	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	1.07	JB	0.0335	MDL	10.7	PQL	ng/Kg	U	B

**Sample ID:** SL-215-SA6-SB-4.0-5.0

**Collected:** 8/22/2011 8:10:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.27	JB	0.0609	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.539	JB	0.0189	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0675	JQ	0.0287	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.119	J	0.0444	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0803	JBQ	0.0287	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.193	JB	0.0450	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0649	JBQ	0.0257	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.212	JB	0.0434	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0339	JBQ	0.0322	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0891	JB	0.0608	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0542	JB	0.0263	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0727	JBQ	0.0292	MDL	5.53	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0689	JQ	0.0617	MDL	1.11	PQL	ng/Kg	J	Z
OCDF	1.81	JQ	0.0649	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-221-SA6-SB-1.0-2.0

Collected: 8/17/2011 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.06	JBQ	0.0597	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.170	JB	0.0163	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0420	JBQ	0.0230	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.102	JBQ	0.0381	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0361	JBQ	0.0209	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0801	JBQ	0.0409	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0409	JBQ	0.0278	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0302	JBQ	0.0221	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0437	JBQ	0.0256	MDL	5.29	PQL	ng/Kg	U	B
OCDF	0.512	JQ	0.0683	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-223-SA6-SB-2.5-3.5

Collected: 8/17/2011 11:56:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.358	JB	0.0611	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0574	JBQ	0.0180	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0303	JB	0.0270	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0970	JBQ	0.0389	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0868	JBQ	0.0279	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0875	JBQ	0.0742	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0888	JB	0.0347	MDL	5.00	PQL	ng/Kg	U	B
OCDD	2.16	JB	0.0413	MDL	10.0	PQL	ng/Kg	J	Z
OCDF	0.367	JQ	0.0953	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-224-SA6-SB-3.0-4.0

Collected: 8/17/2011 10:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.131	JBQ	0.0533	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,4,6,7,8-HPCDF	0.0332	JB	0.0182	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0433	U	0.0433	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0268	U	0.0268	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDD	0.0414	U	0.0414	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,6,7,8-HXCDF	0.0232	U	0.0232	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,7,8,9-HXCDD	0.0949	JBQ	0.0389	MDL	5.26	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HXCDF	0.0239	U	0.0239	MDL	5.26	PQL	ng/Kg	UJ	FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-224-SA6-SB-3.0-4.0

Collected: 8/17/2011 10:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0659	U	0.0659	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0312	JB	0.0292	MDL	5.26	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0209	U	0.0209	MDL	5.26	PQL	ng/Kg	UJ	FD
2,3,4,7,8-PECDF	0.0298	JBQ	0.0287	MDL	5.26	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0769	U	0.0769	MDL	1.05	PQL	ng/Kg	UJ	FD
2,3,7,8-TCDF	0.0635	U	0.0635	MDL	1.05	PQL	ng/Kg	UJ	FD
OCDD	0.263	JBQ	0.0435	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.133	JQ	0.0823	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-226-SA6-SB-3.5-4.5

Collected: 8/17/2011 2:53:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.946	JB	0.0518	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.219	JB	0.0157	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0948	J	0.0255	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.165	J	0.0376	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.196	JB	0.0298	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.230	JB	0.0376	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.189	JBQ	0.0272	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.233	JBQ	0.0357	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.225	JB	0.0307	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.229	JB	0.0620	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.344	JB	0.0310	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.128	JBQ	0.0275	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.314	JB	0.0289	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.170	JQ	0.0763	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	0.539	J	0.0608	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-241-SA6-SB-4.0-5.0

Collected: 8/22/2011 12:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.282	JBQ	0.0363	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0463	JBQ	0.0109	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0399	J	0.0165	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0506	JB	0.0187	MDL	5.21	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-241-SA6-SB-4.0-5.0

Collected: 8/22/2011 12:12:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0570	JB	0.0255	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0240	JB	0.0168	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0388	JBQ	0.0248	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0320	JBQ	0.0194	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0225	JBQ	0.0218	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0267	JBQ	0.0162	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0522	JB	0.0206	MDL	5.21	PQL	ng/Kg	U	B
OCDD	1.56	JB	0.0329	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.107	J	0.0465	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-241-SA6-SB-9.0-10.0

Collected: 8/22/2011 12:13:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.283	JB	0.0420	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0462	JB	0.0103	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0313	JQ	0.0155	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0239	JBQ	0.0190	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0483	JB	0.0293	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0221	JBQ	0.0172	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0861	JBQ	0.0221	MDL	5.37	PQL	ng/Kg	U	B
OCDD	0.480	JB	0.0321	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.147	JQ	0.0565	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-242-SA6-SB-4.0-5.0

Collected: 8/22/2011 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.315	JB	0.0422	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0498	JB	0.0109	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0427	JQ	0.0183	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0257	JB	0.0196	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.114	JBQ	0.0288	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0239	JBQ	0.0175	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.218	JB	0.0276	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.216	JB	0.0206	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0640	JBQ	0.0218	MDL	5.29	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-242-SA6-SB-4.0-5.0

Collected: 8/22/2011 11:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0301	JBQ	0.0179	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0342	JB	0.0213	MDL	5.29	PQL	ng/Kg	U	B
OCDD	2.25	JB	0.0320	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.100	JQ	0.0536	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-242-SA6-SB-9.0-10.0

Collected: 8/22/2011 11:04:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.365	JB	0.0421	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.122	JBQ	0.0137	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0507	JQ	0.0223	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0342	JQ	0.0341	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0763	JBQ	0.0253	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0837	JBQ	0.0348	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0473	JBQ	0.0232	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0946	JBQ	0.0344	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0529	JBQ	0.0264	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0885	JBQ	0.0537	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.195	JBQ	0.0292	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0765	JBQ	0.0232	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JB	0.0264	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0834	J	0.0686	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0563	JQ	0.0512	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	1.41	JB	0.0368	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.166	JQ	0.0489	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-279-SA6-SB-1.0-2.0

Collected: 8/22/2011 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.969	JB	0.0452	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JB	0.0120	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0667	J	0.0254	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0900	J	0.0345	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.196	JB	0.0269	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.156	JB	0.0362	MDL	5.08	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-279-SA6-SB-1.0-2.0

Collected: 8/22/2011 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDF	0.169	JBQ	0.0233	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.151	JB	0.0351	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.162	JB	0.0289	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.222	JB	0.0450	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.324	JB	0.0250	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.111	JBQ	0.0240	MDL	5.08	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.301	JB	0.0249	MDL	5.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0657	J	0.0533	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0889	J	0.0408	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	9.19	JB	0.0400	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.372	JQ	0.0524	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-279-SA6-SB-4.0-5.0

Collected: 8/22/2011 11:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.389	JBQ	0.0458	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.157	JB	0.0144	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0531	JQ	0.0258	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.138	JQ	0.0376	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.178	JB	0.0270	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.150	JBQ	0.0383	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.142	JBQ	0.0234	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.131	JBQ	0.0382	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.153	JBQ	0.0259	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.315	JBQ	0.0619	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.334	JB	0.0293	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.119	JBQ	0.0243	MDL	5.13	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.320	JB	0.0278	MDL	5.13	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.121	J	0.0741	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0977	JQ	0.0489	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	1.95	JB	0.0362	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.161	JQ	0.0628	MDL	10.3	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-279-SA6-SB-9.0-10.0

Collected: 8/22/2011 11:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.57	JB	0.0484	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.271	JBQ	0.0158	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0889	J	0.0316	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.116	JQ	0.0368	MDL	5.39	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.211	JB	0.0243	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.146	JB	0.0368	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.145	JBQ	0.0213	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.125	JBQ	0.0370	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.124	JB	0.0274	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.126	JBQ	0.0511	MDL	5.39	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.230	JB	0.0270	MDL	5.39	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0814	JB	0.0232	MDL	5.39	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.224	JBQ	0.0258	MDL	5.39	PQL	ng/Kg	U	B
OCDF	0.654	JQ	0.0621	MDL	10.8	PQL	ng/Kg	J	Z

Sample ID: SL-310-SA6-SB-4.0-5.0

Collected: 8/22/2011 9:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.28	JB	0.0348	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.301	JB	0.0139	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0415	JB	0.0205	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0491	JB	0.0154	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.170	JBQ	0.0246	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0273	JB	0.0135	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.210	JBQ	0.0230	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.113	JBQ	0.0163	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0304	JBQ	0.0181	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0750	JBQ	0.0135	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0322	JBQ	0.0138	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0637	JBQ	0.0138	MDL	5.48	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0246	J	0.0218	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.781	JB	0.0285	MDL	11.0	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	2.46	JB	0.0315	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.491	J	0.0494	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.458	JQ	0.0561	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.353	JB	0.0351	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.537	JBQ	0.0545	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.280	JB	0.0316	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.370	JB	0.0523	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.226	JBQ	0.0343	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.615	JB	0.0524	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PCDF	0.516	JBQ	0.0277	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.264	JB	0.0306	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PCDF	0.464	JB	0.0256	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.163	JQ	0.0548	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0808	J	0.0416	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	4.83	J	0.0503	MDL	10.4	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX129

Laboratory: LL

EDD Filename: DX129\_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: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX129

# Method Blank Outlier Report

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2340B371734	8/23/2011 5:34:00 PM	1,2,3,4,6,7,8-HPCDD 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 OCDD OCDF	2.80 pg/L 0.632 pg/L 0.512 pg/L 0.765 pg/L 0.547 pg/L 0.856 pg/L 0.489 pg/L 0.876 pg/L 0.588 pg/L 0.858 pg/L 0.562 pg/L 1.02 pg/L 6.56 pg/L 2.84 pg/L	EB-SA6-SB-081711

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-081711(RES)	1,2,3,4,6,7,8-HPCDD	2.81 pg/L	2.81U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,6,7,8-HPCDF	0.562 pg/L	0.562U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,7,8,9-HPCDF	0.367 pg/L	0.367U pg/L
EB-SA6-SB-081711(RES)	1,2,3,4,7,8-HxCDD	0.405 pg/L	0.405U pg/L
EB-SA6-SB-081711(RES)	1,2,3,6,7,8-HxCDF	0.277 pg/L	0.277U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8,9-HxCDD	0.522 pg/L	0.522U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8,9-HxCDF	0.316 pg/L	0.316U pg/L
EB-SA6-SB-081711(RES)	1,2,3,7,8-PECDD	0.710 pg/L	0.710U pg/L
EB-SA6-SB-081711(RES)	2,3,4,6,7,8-HxCDF	0.303 pg/L	0.303U pg/L
EB-SA6-SB-081711(RES)	2,3,4,7,8-PECDF	0.740 pg/L	0.740U pg/L
EB-SA6-SB-081711(RES)	OCDD	4.18 pg/L	4.18U pg/L
EB-SA6-SB-081711(RES)	OCDF	0.569 pg/L	0.569U pg/L

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2380B370305	8/30/2011 3:05:00 AM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-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	0.236 ng/Kg 0.0494 ng/Kg 0.0519 ng/Kg 0.0513 ng/Kg 0.0537 ng/Kg 0.0428 ng/Kg 0.0356 ng/Kg 0.0682 ng/Kg 0.0365 ng/Kg 0.0234 ng/Kg 0.0544 ng/Kg 0.426 ng/Kg	DUP12-SA6-QC-081711 SL-007-SA5DN-SS-0.0-0.5 SL-154-SA6-SB-3.0-4.0 SL-214-SA6-SB-1.0-2.0 SL-215-SA6-SB-4.0-5.0 SL-221-SA6-SB-1.0-2.0 SL-223-SA6-SB-2.5-3.5 SL-224-SA6-SB-3.0-4.0 SL-226-SA6-SB-3.5-4.5 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-315-SA6-SB-3.0-4.0

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2410B372134	8/30/2011 9:34:00 PM	1,2,3,4,6,7,8-HPCDD 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	0.173 ng/Kg 0.0734 ng/Kg 0.0294 ng/Kg 0.0282 ng/Kg 0.0284 ng/Kg 0.0221 ng/Kg 0.0303 ng/Kg 0.0198 ng/Kg 0.0230 ng/Kg 0.0366 ng/Kg 0.0276 ng/Kg 0.0245 ng/Kg 0.0636 ng/Kg 0.349 ng/Kg 0.0879 ng/Kg	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
DUP12-SA6-QC-081711(RES)	1,2,3,4,6,7,8-HPCDD	0.310 ng/Kg	0.310U ng/Kg
DUP12-SA6-QC-081711(RES)	1,2,3,4,6,7,8-HPCDF	0.156 ng/Kg	0.156U ng/Kg
DUP12-SA6-QC-081711(RES)	1,2,3,6,7,8-HxCDD	0.244 ng/Kg	0.244U ng/Kg
DUP12-SA6-QC-081711(RES)	OCDD	0.299 ng/Kg	0.299U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.382 ng/Kg	0.382U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0307 ng/Kg	0.0307U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HxCDF	0.0292 ng/Kg	0.0292U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HxCDD	0.0723 ng/Kg	0.0723U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HxCDF	0.0295 ng/Kg	0.0295U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HxCDF	0.0293 ng/Kg	0.0293U ng/Kg
SL-154-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0537 ng/Kg	0.0537U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.443 ng/Kg	0.443U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HxCDF	0.210 ng/Kg	0.210U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HxCDD	0.142 ng/Kg	0.142U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HxCDF	0.186 ng/Kg	0.186U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HxCDF	0.137 ng/Kg	0.137U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.212 ng/Kg	0.212U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HxCDF	0.0933 ng/Kg	0.0933U ng/Kg
SL-214-SA6-SB-1.0-2.0(RES)	OCDD	1.07 ng/Kg	1.07U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0803 ng/Kg	0.0803U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.193 ng/Kg	0.193U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.212 ng/Kg	0.212U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0339 ng/Kg	0.0339U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0891 ng/Kg	0.0891U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.0542 ng/Kg	0.0542U ng/Kg
SL-215-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.170 ng/Kg	0.170U ng/Kg

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: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-221-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.0420 ng/Kg	0.0420U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDD	0.102 ng/Kg	0.102U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.0361 ng/Kg	0.0361U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.0801 ng/Kg	0.0801U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.0409 ng/Kg	0.0409U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0302 ng/Kg	0.0302U ng/Kg
SL-221-SA6-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0437 ng/Kg	0.0437U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.358 ng/Kg	0.358U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0574 ng/Kg	0.0574U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.0303 ng/Kg	0.0303U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDD	0.0970 ng/Kg	0.0970U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HXCDF	0.0868 ng/Kg	0.0868U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0875 ng/Kg	0.0875U ng/Kg
SL-223-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0888 ng/Kg	0.0888U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.131 ng/Kg	0.131U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0332 ng/Kg	0.0332U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0949 ng/Kg	0.0949U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0312 ng/Kg	0.0312U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0298 ng/Kg	0.0298U ng/Kg
SL-224-SA6-SB-3.0-4.0(RES)	OCDD	0.263 ng/Kg	0.263U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.946 ng/Kg	0.946U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.219 ng/Kg	0.219U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,4,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDD	0.230 ng/Kg	0.230U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,6,7,8-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-226-SA6-SB-3.5-4.5(RES)	1,2,3,7,8-PECDD	0.229 ng/Kg	0.229U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.282 ng/Kg	0.282U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0506 ng/Kg	0.0506U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0570 ng/Kg	0.0570U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0240 ng/Kg	0.0240U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0388 ng/Kg	0.0388U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0225 ng/Kg	0.0225U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0522 ng/Kg	0.0522U ng/Kg
SL-241-SA6-SB-4.0-5.0(RES)	OCDD	1.56 ng/Kg	1.56U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.283 ng/Kg	0.283U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0462 ng/Kg	0.0462U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg

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: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-241-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0483 ng/Kg	0.0483U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0221 ng/Kg	0.0221U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0861 ng/Kg	0.0861U ng/Kg
SL-241-SA6-SB-9.0-10.0(RES)	OCDD	0.480 ng/Kg	0.480U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.315 ng/Kg	0.315U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0257 ng/Kg	0.0257U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.114 ng/Kg	0.114U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0239 ng/Kg	0.0239U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0640 ng/Kg	0.0640U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0301 ng/Kg	0.0301U ng/Kg
SL-242-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0342 ng/Kg	0.0342U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.365 ng/Kg	0.365U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.122 ng/Kg	0.122U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0763 ng/Kg	0.0763U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0837 ng/Kg	0.0837U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0473 ng/Kg	0.0473U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0946 ng/Kg	0.0946U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0529 ng/Kg	0.0529U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.0885 ng/Kg	0.0885U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0765 ng/Kg	0.0765U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-242-SA6-SB-9.0-10.0(RES)	OCDD	1.41 ng/Kg	1.41U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.969 ng/Kg	0.969U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.196 ng/Kg	0.196U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDD	0.156 ng/Kg	0.156U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.169 ng/Kg	0.169U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDD	0.151 ng/Kg	0.151U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.222 ng/Kg	0.222U ng/Kg
SL-279-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.389 ng/Kg	0.389U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.157 ng/Kg	0.157U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.150 ng/Kg	0.150U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.142 ng/Kg	0.142U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.131 ng/Kg	0.131U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.153 ng/Kg	0.153U ng/Kg
SL-279-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.315 ng/Kg	0.315U ng/Kg

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: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-4.0-5.0(RES)	OCDD	1.95 ng/Kg	1.95U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.211 ng/Kg	0.211U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.146 ng/Kg	0.146U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.125 ng/Kg	0.125U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.124 ng/Kg	0.124U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.126 ng/Kg	0.126U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0814 ng/Kg	0.0814U ng/Kg
SL-279-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.224 ng/Kg	0.224U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.301 ng/Kg	0.301U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0415 ng/Kg	0.0415U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0491 ng/Kg	0.0491U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0273 ng/Kg	0.0273U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0304 ng/Kg	0.0304U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0750 ng/Kg	0.0750U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0322 ng/Kg	0.0322U ng/Kg
SL-310-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0637 ng/Kg	0.0637U ng/Kg

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

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

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-224-SA6-SB-3.0-4.0	DUP12-SA6-QC-081711			
OCDD	0.263	0.299	13	50.00	No Qualifiers Applied
OCDF	0.133	0.208	44	50.00	
1,2,3,4,6,7,8-HPCDD	0.131	0.310	81	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	0.0332	0.156	130	50.00	
1,2,3,4,7,8-HxCDD	5.26 U	0.230	200	50.00	
1,2,3,4,7,8-HxCDF	5.26 U	0.339	200	50.00	
1,2,3,6,7,8-HxCDD	5.26 U	0.244	200	50.00	
1,2,3,6,7,8-HxCDF	5.26 U	0.344	200	50.00	
1,2,3,7,8,9-HxCDD	0.0949	0.230	83	50.00	
1,2,3,7,8,9-HxCDF	5.26 U	0.229	200	50.00	
1,2,3,7,8-PECDD	5.26 U	0.483	200	50.00	
1,2,3,7,8-PECDF	0.0312	0.585	180	50.00	
2,3,4,6,7,8-HxCDF	5.26 U	0.190	200	50.00	
2,3,4,7,8-PECDF	0.0298	0.442	175	50.00	
2,3,7,8-TCDD	1.05 U	0.0807	200	50.00	
2,3,7,8-TCDF	1.05 U	0.110	200	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-081711	1,2,3,4,6,7,8-HPCDD	JBQ	2.81	9.56	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.562	9.56	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.367	9.56	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.405	9.56	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.277	9.56	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.522	9.56	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.316	9.56	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.710	9.56	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.303	9.56	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.740	9.56	PQL	pg/L	
	OCDD	JBQ	4.18	19.1	PQL	pg/L	
	OCDF	JBQ	0.569	19.1	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP12-SA6-QC-081711	1,2,3,4,6,7,8-HPCDD	JBQ	0.310	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.156	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.230	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.339	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.244	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.344	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.230	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.229	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.483	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.585	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.190	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.442	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0807	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.110	1.06	PQL	ng/Kg	
	OCDD	JBQ	0.299	10.6	PQL	ng/Kg	
	OCDF	J	0.208	10.6	PQL	ng/Kg	
SL-007-SA5DN-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.19	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	J	1.57	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.304	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.739	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	3.15	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.621	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	2.04	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.94	5.55	PQL	ng/Kg	
	OCDF	J	4.88	11.1	PQL	ng/Kg	
SL-154-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.382	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0307	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0300	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0301	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0292	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0723	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0295	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0293	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0537	5.24	PQL	ng/Kg	
	OCDD	JB	4.14	10.5	PQL	ng/Kg	
	OCDF	JQ	0.0760	10.5	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-214-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	0.443	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.133	5.34	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0450	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.159	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.210	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.142	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.186	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.229	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.137	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.212	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0933	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.313	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0910	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0765	1.07	PQL	ng/Kg	
	OCDD	JB	1.07	10.7	PQL	ng/Kg	
SL-215-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.27	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.539	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0675	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.119	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0803	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.193	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0649	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.212	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0339	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0891	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0542	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0727	5.53	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0689	1.11	PQL	ng/Kg	
	OCDF	JQ	1.81	11.1	PQL	ng/Kg	
SL-221-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JBQ	2.06	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.170	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0420	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.102	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0361	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0801	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0409	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0302	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0437	5.29	PQL	ng/Kg	
	OCDF	JQ	0.512	10.6	PQL	ng/Kg	
SL-223-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	0.358	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0574	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0303	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0970	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0868	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0875	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0888	5.00	PQL	ng/Kg	
	OCDD	JB	2.16	10.0	PQL	ng/Kg	
	OCDF	JQ	0.367	10.0	PQL	ng/Kg	
SL-224-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.131	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0332	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0949	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0312	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0298	5.26	PQL	ng/Kg	
	OCDD	JBQ	0.263	10.5	PQL	ng/Kg	
	OCDF	JQ	0.133	10.5	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-226-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.946	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.219	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0948	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.165	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.196	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.230	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.189	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.233	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.225	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.229	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.344	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.128	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.314	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.170	1.04	PQL	ng/Kg	
	OCDF	J	0.539	10.4	PQL	ng/Kg	
SL-241-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.282	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0463	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0399	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0506	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0570	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0240	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0388	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0320	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0225	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0267	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0522	5.21	PQL	ng/Kg	
	OCDD	JB	1.56	10.4	PQL	ng/Kg	
	OCDF	J	0.107	10.4	PQL	ng/Kg	
SL-241-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.283	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0462	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0313	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0239	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0483	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0221	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0861	5.37	PQL	ng/Kg	
	OCDD	JB	0.480	10.7	PQL	ng/Kg	
	OCDF	JQ	0.147	10.7	PQL	ng/Kg	
SL-242-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.315	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0498	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0427	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.0257	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.114	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0239	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.218	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.216	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0640	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0301	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0342	5.29	PQL	ng/Kg	
	OCDD	JB	2.25	10.6	PQL	ng/Kg	
	OCDF	JQ	0.100	10.6	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-242-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.365	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.122	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0507	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0342	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0763	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0837	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0473	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0946	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0529	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0885	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.195	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0765	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0834	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0563	1.05	PQL	ng/Kg	
	OCDD	JB	1.41	10.5	PQL	ng/Kg	
	OCDF	JQ	0.166	10.5	PQL	ng/Kg	
SL-279-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	0.969	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.166	5.08	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0667	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0900	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.196	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.156	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.169	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.151	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.162	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.222	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.324	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.111	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.301	5.08	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0657	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0889	1.02	PQL	ng/Kg	
	OCDD	JB	9.19	10.2	PQL	ng/Kg	
	OCDF	JQ	0.372	10.2	PQL	ng/Kg	
SL-279-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.389	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.157	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JQ	0.0531	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.138	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.178	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.150	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.142	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.131	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.153	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.315	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.334	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.119	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.320	5.13	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.121	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0977	1.03	PQL	ng/Kg	
	OCDD	JB	1.95	10.3	PQL	ng/Kg	
	OCDF	JQ	0.161	10.3	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX129

Laboratory: LL

EDD Filename: DX129\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-279-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.57	5.39	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.271	5.39	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	J	0.0889	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.116	5.39	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.211	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.146	5.39	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.145	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.125	5.39	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.124	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.126	5.39	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.230	5.39	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0814	5.39	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.224	5.39	PQL	ng/Kg	
	OCDF	JQ	0.654	10.8	PQL	ng/Kg	
SL-310-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.28	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.301	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0415	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0491	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.170	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0273	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.210	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.113	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0304	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0750	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0322	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0637	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0246	1.10	PQL	ng/Kg	
	OCDF	JB	0.781	11.0	PQL	ng/Kg	
SL-315-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDF	JB	2.46	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	J	0.491	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.458	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.353	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.537	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.280	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.370	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.226	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.615	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.516	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.264	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.464	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.163	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0808	1.04	PQL	ng/Kg	
	OCDF	J	4.83	10.4	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX130**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Aug-2011	SL-030-SA6-SB-4.0-5.0	6385543	N	METHOD	1613B	III
23-Aug-2011	SL-030-SA6-SB-9.0-10.0	6385544	N	METHOD	1613B	III
23-Aug-2011	SL-035-SA6-SB-2.5-3.5	6385545	N	METHOD	1613B	III
23-Aug-2011	EB-SA6-SB-082311	6385547	EB	METHOD	1613B	III
23-Aug-2011	SL-040-SA6-SB-4.0-5.0	6385546	N	METHOD	1613B	III
24-Aug-2011	SL-066-SA6-SB-2.0-3.0	6387049	N	METHOD	1613B	III
24-Aug-2011	SL-197-SA6-SB-4.0-5.0	6387050	N	METHOD	1613B	III
24-Aug-2011	SL-208-SA6-SB-4.0-5.0	6387051	N	METHOD	1613B	III
24-Aug-2011	EB-SA6-SB-082411	6387052	EB	METHOD	1613B	III
25-Aug-2011	SL-246-SA6-SB-4.0-5.0	6388749	N	METHOD	1613B	III
25-Aug-2011	SL-041-SA6-SB-3.0-4.0	6388747	N	METHOD	1613B	III
25-Aug-2011	SL-257-SA6-SB-1.5-2.5	6388751	N	METHOD	1613B	III
25-Aug-2011	SL-195-SA6-SB-1.0-2.0	6388748	N	METHOD	1613B	III
25-Aug-2011	SL-247-SA6-SB-4.0-5.0	6388750	N	METHOD	1613B	III
26-Aug-2011	SL-252-SA6-SB-4.0-5.0	6389728	N	METHOD	1613B	III
26-Aug-2011	SL-252-SA6-SB-4.0-5.0MS	6389729	MS	METHOD	1613B	III
26-Aug-2011	SL-252-SA6-SB-4.0-5.0MSD	6389730	MSD	METHOD	1613B	III
26-Aug-2011	DUP13-SA6-QC-082611	6389734	FD	METHOD	1613B	III
26-Aug-2011	SL-291-SA6-SB-2.0-3.0	6389726	N	METHOD	1613B	III
26-Aug-2011	SL-250-SA6-SB-3.0-4.0	6389727	N	METHOD	1613B	III
26-Aug-2011	SL-256-SA6-SB-2.5-3.5	6389731	N	METHOD	1613B	III
26-Aug-2011	SL-113-SA6-SB-4.0-5.0	6389732	N	METHOD	1613B	III
26-Aug-2011	SL-113-SA6-SB-7.0-8.0	6389733	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**



# Data Qualifier Summary

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>AQ</b>

Sample ID: EB-SA6-SB-082311

Collected: 8/23/2011 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.48	JB	0.814	MDL	9.95	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.35	JB	0.381	MDL	9.95	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.961	JBQ	0.427	MDL	9.95	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDD	0.623	JBQ	0.520	MDL	9.95	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.402	JB	0.370	MDL	9.95	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.554	JQ	0.325	MDL	9.95	PQL	pg/L	J	Z
2,3,4,7,8-PECDF	0.643	JBQ	0.338	MDL	9.95	PQL	pg/L	U	B
OCDD	4.48	JB	0.603	MDL	19.9	PQL	pg/L	U	B
OCDF	2.93	JB	0.876	MDL	19.9	PQL	pg/L	U	B

Sample ID: EB-SA6-SB-082411

Collected: 8/24/2011 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.67	JBQ	0.541	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.64	JB	0.253	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.489	JBQ	0.311	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.320	JB	0.258	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.632	JBQ	0.376	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.522	JBQ	0.264	MDL	10.3	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.442	JBQ	0.265	MDL	10.3	PQL	pg/L	U	B
OCDD	7.16	JB	0.438	MDL	20.7	PQL	pg/L	U	B
OCDF	2.09	JB	0.745	MDL	20.7	PQL	pg/L	U	B

<b>Method Category:</b>	<b>GENCHEM</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP13-SA6-QC-082611

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	270	B	0.154	MDL	5.11	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	63.2	B	0.0848	MDL	5.11	PQL	ng/Kg	J	FD
1,2,3,4,7,8-HxCDD	2.64	JB	0.106	MDL	5.11	PQL	ng/Kg	J	Z, FD
1,2,3,4,7,8-HXCDF	28.9	B	0.127	MDL	5.11	PQL	ng/Kg	J	FD
1,2,3,6,7,8-HXCDD	11.5	B	0.108	MDL	5.11	PQL	ng/Kg	J	FD

\* denotes a non-reportable result

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

1/3/2012 11:08:09 AM

ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: DUP13-SA6-QC-082611

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	5.65	B	0.0959	MDL	5.11	PQL	ng/Kg	J	FD
1,2,3,7,8,9-HXCDF	8.87	B	0.124	MDL	5.11	PQL	ng/Kg	J	FD
1,2,3,7,8-PECDD	0.161	U	0.161	MDL	5.11	PQL	ng/Kg	UJ	FD
2,3,4,7,8-PECDF	9.42	B	0.245	MDL	5.11	PQL	ng/Kg	J	FD
2,3,7,8-TCDD	0.134	J	0.0372	MDL	1.02	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	4.76	C	0.651	MDL	1.02	PQL	ng/Kg	J	FD
OCDD	3690	B	0.0932	MDL	10.2	PQL	ng/Kg	J	FD
OCDF	109	B	0.0461	MDL	10.2	PQL	ng/Kg	J	FD

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	5.38	JB	0.162	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	1.07	JB	0.155	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	3.09	JB	0.288	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.69	JB	0.0759	MDL	5.50	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.33	JB	0.0718	MDL	5.50	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.777	J	0.116	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.850	J	0.108	MDL	1.10	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	4.51	JB	0.165	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.900	JB	0.169	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	4.89	JB	0.311	MDL	5.81	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	2.35	JB	0.0900	MDL	5.81	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.11	JB	0.0930	MDL	5.81	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	1.06	J	0.0829	MDL	1.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.687	J	0.120	MDL	1.16	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.05	JBQ	0.115	MDL	5.10	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

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

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

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.761	JB	0.0802	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.365	JB	0.0504	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.33	JB	0.0829	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.437	JB	0.0469	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.699	JB	0.0755	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.111	JB	0.0534	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.134	JB	0.0241	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.225	JB	0.0190	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.526	JB	0.0476	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.210	JB	0.0197	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0353	J	0.0170	MDL	1.02	PQL	ng/Kg	J	Z

**Sample ID:** SL-040-SA6-SB-4.0-5.0

**Collected:** 8/23/2011 2:26:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.99	JB	0.0414	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.226	JBQ	0.0572	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.0597	JB	0.0400	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.180	JBQ	0.0382	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.280	JB	0.0406	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.100	JB	0.0344	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.163	JB	0.0371	MDL	5.08	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.0820	JB	0.0376	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0425	JBQ	0.0252	MDL	5.08	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.371	JB	0.0215	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.125	JB	0.0377	MDL	5.08	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.163	JB	0.0201	MDL	5.08	PQL	ng/Kg	U	B
OCDF	4.51	JB	0.0258	MDL	10.2	PQL	ng/Kg	J	Z

**Sample ID:** SL-041-SA6-SB-3.0-4.0

**Collected:** 8/25/2011 9:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.976	JB	0.0157	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0607	JBQ	0.0215	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.106	JB	0.0439	MDL	5.14	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-041-SA6-SB-3.0-4.0

Collected: 8/25/2011 9:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.0852	JB	0.0279	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.456	JB	0.0438	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.125	JB	0.0253	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.360	JB	0.0408	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.157	JB	0.0287	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0636	JBQ	0.0169	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0773	JBQ	0.0120	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0659	JB	0.0267	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.100	JB	0.0117	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0180	JQ	0.0168	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0238	JQ	0.0222	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.34	JB	0.0252	MDL	10.3	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.37	JB	0.0363	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.251	JB	0.0457	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.135	JBQ	0.0327	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.148	JB	0.0267	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.369	JB	0.0332	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.122	JB	0.0248	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.160	JB	0.0324	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.124	JB	0.0255	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.144	JB	0.0174	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.177	JB	0.0120	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.134	JB	0.0249	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.186	JB	0.0112	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0526	J	0.0156	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0468	JQ	0.0154	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	3.20	JB	0.0224	MDL	10.4	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.98	JB	0.0717	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	4.64	JB	0.0735	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.941	JB	0.0520	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.831	JB	0.0495	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.82	JB	0.0684	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.236	JB	0.0188	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.977	JB	0.0487	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.312	JB	0.0178	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.319	J	0.0178	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0679	J	0.0261	MDL	1.05	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.769	JB	0.0610	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.08	JB	0.0676	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.282	JB	0.0335	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.79	JB	0.0673	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.227	JB	0.0313	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.43	JB	0.0632	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0656	JB	0.0323	MDL	5.30	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.413	JB	0.0264	MDL	5.30	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0641	JBQ	0.0110	MDL	5.30	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.274	JB	0.0313	MDL	5.30	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0638	JB	0.0109	MDL	5.30	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0418	JQ	0.0132	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0211	J	0.0145	MDL	1.06	PQL	ng/Kg	J	Z

Sample ID: SL-195-SA6-SB-1.0-2.0

Collected: 8/25/2011 12:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.04	JB	0.0406	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.326	JB	0.0134	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0404	JB	0.0192	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0297	JBQ	0.0201	MDL	5.16	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-195-SA6-SB-1.0-2.0

Collected: 8/25/2011 12:22:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.111	JB	0.0209	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.135	JB	0.0214	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0546	JBQ	0.0189	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.124	JBQ	0.0185	MDL	5.16	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.108	JB	0.0209	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0264	JB	0.0169	MDL	5.16	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.188	JB	0.0209	MDL	5.16	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0924	JB	0.0186	MDL	5.16	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.504	JB	0.0218	MDL	5.16	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0478	JQ	0.0452	MDL	1.03	PQL	ng/Kg	J	Z
OCDD	7.21	JB	0.0248	MDL	10.3	PQL	ng/Kg	J	Z
OCDF	0.556	JB	0.0200	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-197-SA6-SB-4.0-5.0

Collected: 8/24/2011 11:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.643	JB	0.0274	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.207	JB	0.0171	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0817	JB	0.0228	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.137	JB	0.0263	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.234	JB	0.0225	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.188	JB	0.0265	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.215	JB	0.0202	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.246	JB	0.0232	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.246	JB	0.0219	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.275	JB	0.0219	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.382	JB	0.0149	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.134	JBQ	0.0211	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.329	JB	0.0143	MDL	5.42	PQL	ng/Kg	J	Z
OCDD	3.67	JB	0.0239	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.239	JB	0.0236	MDL	10.8	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

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

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

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.568	JB	0.0392	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.256	JB	0.0566	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.253	JB	0.0479	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.989	JB	0.0571	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.302	JB	0.0427	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.566	JB	0.0564	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.148	JB	0.0453	MDL	5.42	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.138	JB	0.0223	MDL	5.42	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.118	JB	0.0126	MDL	5.42	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.450	JB	0.0423	MDL	5.42	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.126	JB	0.0131	MDL	5.42	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0339	J	0.0166	MDL	1.08	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0271	J	0.0184	MDL	1.08	PQL	ng/Kg	J	Z

**Sample ID:** SL-246-SA6-SB-4.0-5.0

**Collected:** 8/25/2011 9:09:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.26	JB	0.0698	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.37	JB	0.111	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.853	JB	0.0625	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	4.07	JB	0.109	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.638	JB	0.0546	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.24	JB	0.110	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.452	JB	0.0633	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.499	JB	0.0521	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.903	JB	0.0608	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.386	JB	0.0426	MDL	5.46	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0612	J	0.0168	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.349	J	0.0673	MDL	1.09	PQL	ng/Kg	J	Z

**Sample ID:** SL-247-SA6-SB-4.0-5.0

**Collected:** 8/25/2011 2:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.307	JB	0.0177	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0487	JB	0.00585	MDL	5.32	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-247-SA6-SB-4.0-5.0

Collected: 8/25/2011 2:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0151	JBQ	0.00845	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0264	JB	0.00813	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0243	JB	0.0139	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.00778	JBQ	0.00726	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0213	JB	0.0129	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0144	JBQ	0.00878	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0155	JBQ	0.0108	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0107	JBQ	0.00715	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0312	JB	0.0101	MDL	5.32	PQL	ng/Kg	U	B
OCDD	1.32	JB	0.0321	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.103	JBQ	0.0153	MDL	10.6	PQL	ng/Kg	U	B

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.60	JB	0.0623	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.876	JB	0.0759	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.50	JB	0.0859	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	3.28	JB	0.0783	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.22	JB	0.0821	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.71	JB	0.0784	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.373	JB	0.0820	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.557	JB	0.0440	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.13	JB	0.0832	MDL	5.12	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.83	JB	0.0925	MDL	5.12	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.119	J	0.0177	MDL	1.02	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2210	EB	0.468	MDL	5.26	PQL	ng/Kg	J	FD
1,2,3,4,6,7,8-HPCDF	214	B	0.165	MDL	5.26	PQL	ng/Kg	J	Q, FD
1,2,3,4,7,8-HxCDD	7.11	B	0.185	MDL	5.26	PQL	ng/Kg	J	FD
1,2,3,4,7,8-HXCDF	17.0	B	0.187	MDL	5.26	PQL	ng/Kg	J	FD
1,2,3,6,7,8-HXCDD	56.2	B	0.193	MDL	5.26	PQL	ng/Kg	J	FD

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	20.6	B	0.177	MDL	5.26	PQL	ng/Kg	J	FD
1,2,3,7,8,9-HXCDF	0.201	U	0.201	MDL	5.26	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	3.95	JB	0.224	MDL	5.26	PQL	ng/Kg	J	Z, FD
2,3,4,7,8-PECDF	5.56	B	0.222	MDL	5.26	PQL	ng/Kg	J	FD
2,3,7,8-TCDD	0.727	J	0.0748	MDL	1.05	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDF	8.25	C	0.600	MDL	1.05	PQL	ng/Kg	J	FD
OCDD	26000	EB	0.246	MDL	10.5	PQL	ng/Kg	J	FD
OCDF	452	B	0.0709	MDL	10.5	PQL	ng/Kg	J	Q, FD

Sample ID: SL-256-SA6-SB-2.5-3.5

Collected: 8/26/2011 11:42:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.70	JB	0.0281	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.01	JB	0.0184	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.124	JB	0.0292	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0829	JB	0.0318	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.133	JB	0.0266	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.439	JB	0.0333	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.155	JB	0.0238	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.422	JB	0.0314	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.158	JB	0.0284	MDL	5.31	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0719	JBQ	0.0168	MDL	5.31	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.146	JB	0.0130	MDL	5.31	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.120	JB	0.0237	MDL	5.31	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.181	JB	0.0128	MDL	5.31	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0159	J	0.0142	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0601	J	0.0255	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	1.95	JB	0.0260	MDL	10.6	PQL	ng/Kg	J	Z

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

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

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.465	JB	0.0493	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.525	JB	0.0874	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.635	JB	0.0566	MDL	5.17	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

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

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

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	1.47	JB	0.0857	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.314	JB	0.0527	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.885	JB	0.0781	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.125	JB	0.0601	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.236	JB	0.0353	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.367	JB	0.0547	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.366	JB	0.0850	MDL	5.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.512	J	0.110	MDL	1.03	PQL	ng/Kg	J	Z

**Sample ID:** SL-291-SA6-SB-2.0-3.0

**Collected:** 8/26/2011 9:35:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.05	JB	0.0683	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.55	JB	0.0798	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	2.80	JB	0.112	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.92	JB	0.0733	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.687	JB	0.110	MDL	5.04	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.971	JB	0.0933	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.59	JB	0.110	MDL	5.04	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.36	JB	0.151	MDL	5.04	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_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: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

## DX130

# Method Blank Outlier Report

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2410B372003	9/1/2011 8:03:00 PM	1,2,3,4,6,7,8-HPCDD 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 2,3,4,7,8-PECDF OCDD OCDF	2.36 pg/L 1.16 pg/L 0.324 pg/L 0.491 pg/L 0.365 pg/L 0.571 pg/L 0.454 pg/L 0.726 pg/L 0.623 pg/L 0.618 pg/L 0.451 pg/L 0.691 pg/L 5.87 pg/L 1.28 pg/L	EB-SA6-SB-082311 EB-SA6-SB-082411

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-082311(RES)	1,2,3,4,6,7,8-HPCDD	3.48 pg/L	3.48U pg/L
EB-SA6-SB-082311(RES)	1,2,3,4,6,7,8-HPCDF	1.35 pg/L	1.35U pg/L
EB-SA6-SB-082311(RES)	1,2,3,4,7,8-HxCDF	0.961 pg/L	0.961U pg/L
EB-SA6-SB-082311(RES)	1,2,3,6,7,8-HxCDD	0.623 pg/L	0.623U pg/L
EB-SA6-SB-082311(RES)	1,2,3,7,8,9-HxCDF	0.402 pg/L	0.402U pg/L
EB-SA6-SB-082311(RES)	2,3,4,7,8-PECDF	0.643 pg/L	0.643U pg/L
EB-SA6-SB-082311(RES)	OCDD	4.48 pg/L	4.48U pg/L
EB-SA6-SB-082311(RES)	OCDF	2.93 pg/L	2.93U pg/L
EB-SA6-SB-082411(RES)	1,2,3,4,6,7,8-HPCDD	3.67 pg/L	3.67U pg/L
EB-SA6-SB-082411(RES)	1,2,3,4,6,7,8-HPCDF	2.64 pg/L	2.64U pg/L
EB-SA6-SB-082411(RES)	1,2,3,4,7,8,9-HPCDF	0.489 pg/L	0.489U pg/L
EB-SA6-SB-082411(RES)	1,2,3,4,7,8-HxCDF	0.320 pg/L	0.320U pg/L
EB-SA6-SB-082411(RES)	1,2,3,7,8,9-HxCDD	0.632 pg/L	0.632U pg/L
EB-SA6-SB-082411(RES)	1,2,3,7,8,9-HxCDF	0.522 pg/L	0.522U pg/L
EB-SA6-SB-082411(RES)	2,3,4,7,8-PECDF	0.442 pg/L	0.442U pg/L
EB-SA6-SB-082411(RES)	OCDD	7.16 pg/L	7.16U pg/L
EB-SA6-SB-082411(RES)	OCDF	2.09 pg/L	2.09U pg/L



# Method Blank Outlier Report

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method: 1613B</b> <b>Matrix: SO</b>				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2410B372134	8/30/2011 9:34:00 PM	1,2,3,4,6,7,8-HPCDD 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	0.173 ng/Kg 0.0734 ng/Kg 0.0294 ng/Kg 0.0282 ng/Kg 0.0284 ng/Kg 0.0221 ng/Kg 0.0303 ng/Kg 0.0198 ng/Kg 0.0230 ng/Kg 0.0366 ng/Kg 0.0276 ng/Kg 0.0245 ng/Kg 0.0636 ng/Kg 0.349 ng/Kg 0.0879 ng/Kg	DUP13-SA6-QC-082611 SL-030-SA6-SB-4.0-5.0 SL-030-SA6-SB-9.0-10.0 SL-035-SA6-SB-2.5-3.5 SL-040-SA6-SB-4.0-5.0 SL-041-SA6-SB-3.0-4.0 SL-066-SA6-SB-2.0-3.0 SL-113-SA6-SB-4.0-5.0 SL-113-SA6-SB-7.0-8.0 SL-195-SA6-SB-1.0-2.0 SL-197-SA6-SB-4.0-5.0 SL-208-SA6-SB-4.0-5.0 SL-246-SA6-SB-4.0-5.0 SL-247-SA6-SB-4.0-5.0 SL-250-SA6-SB-3.0-4.0 SL-252-SA6-SB-4.0-5.0 SL-256-SA6-SB-2.5-3.5 SL-257-SA6-SB-1.5-2.5 SL-291-SA6-SB-2.0-3.0

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-035-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HxCDF	0.111 ng/Kg	0.111U ng/Kg
SL-035-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.134 ng/Kg	0.134U ng/Kg
SL-035-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.210 ng/Kg	0.210U ng/Kg
SL-040-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0597 ng/Kg	0.0597U ng/Kg
SL-040-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.100 ng/Kg	0.100U ng/Kg
SL-040-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0820 ng/Kg	0.0820U ng/Kg
SL-040-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0425 ng/Kg	0.0425U ng/Kg
SL-040-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0607 ng/Kg	0.0607U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDD	0.106 ng/Kg	0.106U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HxCDF	0.0852 ng/Kg	0.0852U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HxCDF	0.125 ng/Kg	0.125U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0636 ng/Kg	0.0636U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0773 ng/Kg	0.0773U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HxCDF	0.0659 ng/Kg	0.0659U ng/Kg
SL-041-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.100 ng/Kg	0.100U ng/Kg
SL-066-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.135 ng/Kg	0.135U ng/Kg
SL-066-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HxCDF	0.122 ng/Kg	0.122U ng/Kg
SL-066-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.144 ng/Kg	0.144U ng/Kg
SL-066-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.186 ng/Kg	0.186U ng/Kg
SL-113-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.312 ng/Kg	0.312U ng/Kg
SL-113-SA6-SB-7.0-8.0(RES)	1,2,3,7,8,9-HxCDF	0.0656 ng/Kg	0.0656U ng/Kg
SL-113-SA6-SB-7.0-8.0(RES)	1,2,3,7,8-PECDF	0.0641 ng/Kg	0.0641U ng/Kg
SL-113-SA6-SB-7.0-8.0(RES)	2,3,4,7,8-PECDF	0.0638 ng/Kg	0.0638U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.326 ng/Kg	0.326U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0404 ng/Kg	0.0404U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HxCDD	0.0297 ng/Kg	0.0297U ng/Kg

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: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-195-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.111 ng/Kg	0.111U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.0546 ng/Kg	0.0546U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.108 ng/Kg	0.108U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDD	0.0264 ng/Kg	0.0264U ng/Kg
SL-195-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0924 ng/Kg	0.0924U ng/Kg
SL-197-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.643 ng/Kg	0.643U ng/Kg
SL-197-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.207 ng/Kg	0.207U ng/Kg
SL-197-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0817 ng/Kg	0.0817U ng/Kg
SL-197-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.137 ng/Kg	0.137U ng/Kg
SL-197-SA6-SB-4.0-5.0(RES)	OCDF	0.239 ng/Kg	0.239U ng/Kg
SL-208-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.138 ng/Kg	0.138U ng/Kg
SL-208-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.118 ng/Kg	0.118U ng/Kg
SL-208-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.126 ng/Kg	0.126U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.307 ng/Kg	0.307U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0487 ng/Kg	0.0487U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0151 ng/Kg	0.0151U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0264 ng/Kg	0.0264U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDD	0.0243 ng/Kg	0.0243U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.00778 ng/Kg	0.00778U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0213 ng/Kg	0.0213U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0144 ng/Kg	0.0144U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0155 ng/Kg	0.0155U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0107 ng/Kg	0.0107U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0312 ng/Kg	0.0312U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	OCDD	1.32 ng/Kg	1.32U ng/Kg
SL-247-SA6-SB-4.0-5.0(RES)	OCDF	0.103 ng/Kg	0.103U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.124 ng/Kg	0.124U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0829 ng/Kg	0.0829U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.133 ng/Kg	0.133U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0719 ng/Kg	0.0719U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.120 ng/Kg	0.120U ng/Kg
SL-256-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.181 ng/Kg	0.181U ng/Kg

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

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-252-SA6-SB-4.0-5.0MS	1,2,3,4,6,7,8-HPCDD	-2059	-2054	40.00-135.00	-	1,2,3,4,6,7,8-HPCDD	J (all detects)
SL-252-SA6-SB-4.0-5.0MSD	1,2,3,4,6,7,8-HPCDF	-97	-92	40.00-135.00	-	1,2,3,4,6,7,8-HPCDF	R (all non-detects)
(SL-252-SA6-SB-4.0-5.0)	OCDD	-12580	-12592	40.00-135.00	-	OCDD	1,2,3,4,6,7,8-HPCDD,
	OCDF	-108	-104	40.00-135.00	-	OCDF	OCDD, No Qual, >4x

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: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

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

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-252-SA6-SB-4.0-5.0	DUP13-SA6-QC-082611			
1,2,3,4,7,8,9-HPCDF	19.2	14.2	30	50.00	No Qualifiers Applied
1,2,3,6,7,8-HXCDF	14.1	11.0	25	50.00	
1,2,3,7,8-PECDF	23.9	31.3	27	50.00	
2,3,4,6,7,8-HXCDF	16.7	11.4	38	50.00	
1,2,3,4,6,7,8-HPCDD	2210	270	156	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	214	63.2	109	50.00	
1,2,3,4,7,8-HxCDD	7.11	2.64	92	50.00	
1,2,3,4,7,8-HXCDF	17.0	28.9	52	50.00	
1,2,3,6,7,8-HXCDD	56.2	11.5	132	50.00	
1,2,3,7,8,9-HXCDD	20.6	5.65	114	50.00	
1,2,3,7,8,9-HXCDF	5.26 U	8.87	200	50.00	
1,2,3,7,8-PECDD	3.95	5.11 U	200	50.00	
2,3,4,7,8-PECDF	5.56	9.42	52	50.00	
2,3,7,8-TCDD	0.727	0.134	138	50.00	
2,3,7,8-TCDF	8.25	4.76	54	50.00	
OCDD	26000	3690	150	50.00	
OCDF	452	109	122	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-082311	1,2,3,4,6,7,8-HPCDD	JB	3.48	9.95	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.35	9.95	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.961	9.95	PQL	pg/L	
	1,2,3,6,7,8-HXCDD	JBQ	0.623	9.95	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.402	9.95	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JQ	0.554	9.95	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.643	9.95	PQL	pg/L	
	OCDD	JB	4.48	19.9	PQL	pg/L	
	OCDF	JB	2.93	19.9	PQL	pg/L	
EB-SA6-SB-082411	1,2,3,4,6,7,8-HPCDD	JBQ	3.67	10.3	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.64	10.3	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.489	10.3	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.320	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.632	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.522	10.3	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.442	10.3	PQL	pg/L	
	OCDD	JB	7.16	20.7	PQL	pg/L	
	OCDF	JB	2.09	20.7	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP13-SA6-QC-082611	1,2,3,4,7,8-HxCDD	JB	2.64	5.11	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.134	1.02	PQL	ng/Kg	
SL-030-SA6-SB-4.0-5.0	1,2,3,4,7,8-HXCDF	JB	5.38	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	1.07	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	3.09	5.50	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.69	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.33	5.50	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.777	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.850	1.10	PQL	ng/Kg	
SL-030-SA6-SB-9.0-10.0	1,2,3,4,7,8-HXCDF	JB	4.51	5.81	PQL	ng/Kg	J (all detects)
	1,2,3,7,8,9-HXCDF	JB	0.900	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	4.89	5.81	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	2.35	5.81	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.11	5.81	PQL	ng/Kg	
	2,3,7,8-TCDD	J	1.06	1.16	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.687	1.16	PQL	ng/Kg	
SL-035-SA6-SB-2.5-3.5	1,2,3,4,7,8,9-HPCDF	JBQ	1.05	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.761	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.365	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	2.33	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.437	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.699	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.111	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.134	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.225	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.526	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.210	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0353	1.02	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-040-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.99	5.08	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.226	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0597	5.08	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.180	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.280	5.08	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.100	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.163	5.08	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0820	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0425	5.08	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.371	5.08	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.125	5.08	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.163	5.08	PQL	ng/Kg	
	OCDF	JB	4.51	10.2	PQL	ng/Kg	
SL-041-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDF	JB	0.976	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0607	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.106	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0852	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.456	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.125	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.360	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.157	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0636	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0773	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0659	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.100	5.14	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0180	1.03	PQL	ng/Kg	
SL-066-SA6-SB-2.0-3.0	2,3,7,8-TCDF	JQ	0.0238	1.03	PQL	ng/Kg	J (all detects)
	OCDF	JB	1.34	10.3	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	1.37	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.251	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.135	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.148	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.369	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.122	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.160	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.124	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.144	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.177	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.134	5.18	PQL	ng/Kg	
SL-113-SA6-SB-4.0-5.0	2,3,4,7,8-PECDF	JB	0.186	5.18	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.0526	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0468	1.04	PQL	ng/Kg	
	OCDF	JB	3.20	10.4	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	2.98	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	4.64	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.941	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.831	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.82	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.236	5.23	PQL	ng/Kg	J (all detects)
	2,3,4,6,7,8-HXCDF	JB	0.977	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.312	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.319	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0679	1.05	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-113-SA6-SB-7.0-8.0	1,2,3,4,7,8,9-HPCDF	JB	0.769	5.30	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.08	5.30	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.282	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.79	5.30	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.227	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.43	5.30	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0656	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.413	5.30	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0641	5.30	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.274	5.30	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0638	5.30	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0418	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0211	1.06	PQL	ng/Kg	
SL-195-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	1.04	5.16	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.326	5.16	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0404	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0297	5.16	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.111	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.135	5.16	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0546	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.124	5.16	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.108	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0264	5.16	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.188	5.16	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0924	5.16	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.504	5.16	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0478	1.03	PQL	ng/Kg	
	OCDD	JB	7.21	10.3	PQL	ng/Kg	
	OCDF	JB	0.556	10.3	PQL	ng/Kg	
SL-197-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.643	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.207	5.42	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0817	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.137	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.234	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.188	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.215	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.246	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.246	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.275	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.382	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.134	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.329	5.42	PQL	ng/Kg	
	OCDD	JB	3.67	10.8	PQL	ng/Kg	
	OCDF	JB	0.239	10.8	PQL	ng/Kg	
SL-208-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.568	5.42	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.256	5.42	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.253	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.989	5.42	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.302	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.566	5.42	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.148	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.138	5.42	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.118	5.42	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.450	5.42	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.126	5.42	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0339	1.08	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0271	1.08	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-246-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	1.26	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.37	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.853	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	4.07	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.638	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.24	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.452	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.499	5.46	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.903	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.386	5.46	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0612	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.349	1.09	PQL	ng/Kg	
SL-247-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.307	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.0487	5.32	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0151	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0264	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0243	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.00778	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0213	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0144	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0155	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0107	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0312	5.32	PQL	ng/Kg	
	OCDD	JB	1.32	10.6	PQL	ng/Kg	
	OCDF	JBQ	0.103	10.6	PQL	ng/Kg	
SL-250-SA6-SB-3.0-4.0	1,2,3,4,7,8,9-HPCDF	JB	1.60	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.876	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.50	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	3.28	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.22	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.71	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.373	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.557	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.13	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.83	5.12	PQL	ng/Kg	
SL-252-SA6-SB-4.0-5.0	2,3,7,8-TCDD	J	0.119	1.02	PQL	ng/Kg	J (all detects)
	2,3,7,8-TCDD	J	0.727	1.05	PQL	ng/Kg	
SL-256-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	3.70	5.31	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.01	5.31	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.124	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0829	5.31	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.133	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.439	5.31	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.155	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.422	5.31	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.158	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0719	5.31	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.146	5.31	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.120	5.31	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.181	5.31	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0159	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0601	1.06	PQL	ng/Kg	
	OCDF	JB	1.95	10.6	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX130

Laboratory: LL

EDD Filename: DX130\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-257-SA6-SB-1.5-2.5	1,2,3,4,7,8,9-HPCDF	JB	0.465	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.525	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.635	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	1.47	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.314	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.885	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.125	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.236	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.367	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.366	5.17	PQL	ng/Kg	
SL-291-SA6-SB-2.0-3.0	2,3,7,8-TCDF	J	0.512	1.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	2.05	5.04	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	1.55	5.04	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	2.80	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.92	5.04	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.687	5.04	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.971	5.04	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	2.59	5.04	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.36	5.04	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX131**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Aug-2011	SL-255-SA6-SB-2.0-3.0	6390972	N	METHOD	1613B	III
29-Aug-2011	SL-253-SA6-SB-4.0-5.0	6390971	N	METHOD	1613B	III
29-Aug-2011	SL-249-SA6-SB-4.0-5.0	6390970	N	METHOD	1613B	III
29-Aug-2011	SL-192-SA6-SB-4.0-5.0	6390973	N	METHOD	1613B	III
29-Aug-2011	SL-192-SA6-SB-9.0-10.0	6390974	N	METHOD	1613B	III
30-Aug-2011	SL-267-SA6-SB-4.0-5.0	6392239	N	METHOD	1613B	III
30-Aug-2011	SL-267-SA6-SB-9.0-10.0	6392240	N	METHOD	1613B	III
30-Aug-2011	SL-305-SA6-SS-0.0-0.5	6392242	N	METHOD	1613B	III
30-Aug-2011	SL-305-SA6-SB-2.0-3.0	6392241	N	METHOD	1613B	III
30-Aug-2011	EB-SA6-SB-083011	6392245	EB	METHOD	1613B	III
30-Aug-2011	SL-306-SA6-SB-4.0-5.0	6392244	N	METHOD	1613B	III
30-Aug-2011	SL-306-SA6-SS-0.0-0.5	6392243	N	METHOD	1613B	III
31-Aug-2011	SL-198-SA6-SB-4.0-5.0	6393655	N	METHOD	1613B	III
31-Aug-2011	SL-198-SA6-SB-9.0-10.0	6393656	N	METHOD	1613B	III
31-Aug-2011	SL-213-SA6-SB-4.0-5.0	6393660	N	METHOD	1613B	III
31-Aug-2011	SL-201-SA6-SB-2.0-3.0	6393659	N	METHOD	1613B	III
31-Aug-2011	SL-270-SA6-SB-2.0-3.0	6393661	N	METHOD	1613B	III
31-Aug-2011	SL-199-SA6-SB-4.0-5.0	6393657	N	METHOD	1613B	III
31-Aug-2011	SL-200-SA6-SB-4.0-5.0	6393658	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: AQ

Sample ID: EB-SA6-SB-083011

Collected: 8/30/2011 1:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.92	JBQ	0.381	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.06	JB	0.167	MDL	10.3	PQL	pg/L	U	B
1,2,3,4,7,8-HXCDF	0.360	JBQ	0.160	MDL	10.3	PQL	pg/L	U	B
1,2,3,6,7,8-HXCDF	0.377	JBQ	0.155	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDD	0.250	JBQ	0.224	MDL	10.3	PQL	pg/L	U	B
1,2,3,7,8,9-HXCDF	0.183	JBQ	0.150	MDL	10.3	PQL	pg/L	U	B
2,3,4,6,7,8-HXCDF	0.309	JBQ	0.146	MDL	10.3	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.473	JQ	0.109	MDL	10.3	PQL	pg/L	J	Z
OCDD	4.69	JBQ	0.243	MDL	20.6	PQL	pg/L	U	B
OCDF	1.76	JBQ	0.384	MDL	20.6	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-192-SA6-SB-4.0-5.0

Collected: 8/29/2011 2:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.52	JB	0.0721	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.12	JB	0.0262	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.153	JB	0.0415	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0798	JB	0.0305	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.197	JB	0.0341	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.200	JQ	0.0311	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.152	JB	0.0301	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.158	JB	0.0274	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0903	JB	0.0378	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0587	JQ	0.0169	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0986	JB	0.0138	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.189	JBQ	0.0311	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0991	JB	0.0154	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0284	J	0.0149	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	1.45	JB	0.0432	MDL	10.5	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-192-SA6-SB-9.0-10.0

Collected: 8/29/2011 2:33:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.27	JB	0.0198	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.160	JB	0.0292	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0690	JBQ	0.0311	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.224	JB	0.0329	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.230	J	0.0314	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.119	JBQ	0.0283	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.178	JB	0.0304	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.126	JBQ	0.0305	MDL	5.32	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0290	JQ	0.0175	MDL	5.32	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0913	JB	0.0171	MDL	5.32	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.162	JB	0.0281	MDL	5.32	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0904	JBQ	0.0180	MDL	5.32	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0349	JQ	0.0304	MDL	1.06	PQL	ng/Kg	J	Z
OCDF	2.15	JB	0.0410	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-198-SA6-SB-4.0-5.0

Collected: 8/31/2011 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.17	JB	0.0511	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.754	JB	0.0271	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0764	JBQ	0.0448	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0340	JB	0.0237	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.116	JB	0.0251	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.121	J	0.0240	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0610	JB	0.0215	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.149	JB	0.0220	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.165	JBQ	0.0278	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0375	JQ	0.0266	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0805	JB	0.0150	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.139	JB	0.0239	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.114	JB	0.0151	MDL	5.21	PQL	ng/Kg	U	B
OCDF	1.15	JB	0.0466	MDL	10.4	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-198-SA6-SB-9.0-10.0

Collected: 8/31/2011 8:35:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.97	JB	0.0382	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.08	JB	0.0216	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.115	JB	0.0302	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0281	JB	0.0246	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.170	JB	0.0267	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.150	JQ	0.0252	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.107	JB	0.0244	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.226	JB	0.0229	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.269	JB	0.0283	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0369	JQ	0.0242	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.121	JB	0.0168	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.210	JB	0.0259	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.144	JB	0.0172	MDL	5.36	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0512	J	0.0132	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0393	JQ	0.0242	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	1.21	JB	0.0374	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-199-SA6-SB-4.0-5.0

Collected: 8/31/2011 12:28:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.809	JB	0.0340	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.710	JB	0.0176	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0786	JB	0.0269	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.117	JB	0.0210	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0514	JQ	0.0189	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0842	JB	0.0187	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0480	JBQ	0.0187	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0496	JBQ	0.0128	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.184	JBQ	0.0208	MDL	5.41	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0983	JBQ	0.0139	MDL	5.41	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0311	JQ	0.0174	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	5.37	JB	0.0416	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.521	JB	0.0378	MDL	10.8	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-200-SA6-SB-4.0-5.0

Collected: 8/31/2011 2:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.37	JB	0.0522	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.698	JB	0.0196	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0913	JB	0.0305	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0294	JB	0.0197	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.140	JB	0.0239	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0786	JQ	0.0209	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0795	JB	0.0204	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.116	JB	0.0185	MDL	5.55	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.115	JB	0.0268	MDL	5.55	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0421	JB	0.0178	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.166	JB	0.0218	MDL	5.55	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0976	JB	0.0181	MDL	5.55	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0261	JQ	0.0181	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	8.74	JB	0.0373	MDL	11.1	PQL	ng/Kg	J	Z
OCDF	0.645	JB	0.0369	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-201-SA6-SB-2.0-3.0

Collected: 8/31/2011 10:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.33	JB	0.0387	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.416	JB	0.0543	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.265	JB	0.0786	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.222	JBQ	0.0372	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.984	J	0.0780	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.166	JB	0.0349	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.294	JBQ	0.0703	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.166	JB	0.0411	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.114	J	0.0391	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.191	JB	0.0157	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.311	JB	0.0358	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.205	JB	0.0157	MDL	5.00	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0431	JQ	0.0139	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0895	J	0.0317	MDL	1.00	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-213-SA6-SB-4.0-5.0

Collected: 8/31/2011 9:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.766	JB	0.0391	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.428	JB	0.0157	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0789	JB	0.0268	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0509	JBQ	0.0246	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.178	JB	0.0219	MDL	5.29	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.194	J	0.0240	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.131	JB	0.0185	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.278	JB	0.0223	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.229	JB	0.0252	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.156	J	0.0236	MDL	5.29	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.216	JB	0.0155	MDL	5.29	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.152	JBQ	0.0194	MDL	5.29	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.175	JB	0.0163	MDL	5.29	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0529	J	0.0192	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	5.58	JB	0.0266	MDL	10.6	PQL	ng/Kg	J	Z
OCDF	0.510	JB	0.0346	MDL	10.6	PQL	ng/Kg	U	B

Sample ID: SL-249-SA6-SB-4.0-5.0

Collected: 8/29/2011 11:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	4.82	JB	0.0363	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.446	JB	0.0434	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.283	JB	0.0733	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.559	JB	0.0571	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.610	J	0.0749	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.328	JB	0.0520	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.379	JB	0.0715	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.298	JB	0.0588	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.117	J	0.0336	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.286	JB	0.0337	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.431	JB	0.0540	MDL	5.23	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.257	JB	0.0328	MDL	5.23	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0253	J	0.0194	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0506	J	0.0468	MDL	1.05	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-249-SA6-SB-4.0-5.0

Collected: 8/29/2011 11:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	8.95	JB	0.0318	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-253-SA6-SB-4.0-5.0

Collected: 8/29/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.451	JB	0.0440	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.221	JB	0.0697	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.772	JB	0.0676	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	2.92	J	0.0717	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.514	JB	0.0651	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.01	JB	0.0663	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.239	JB	0.0701	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0981	JQ	0.0241	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.446	JB	0.0407	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.562	JB	0.0593	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.452	JB	0.0384	MDL	5.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.414	J	0.0776	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	8.13	JB	0.0288	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-255-SA6-SB-2.0-3.0

Collected: 8/29/2011 8:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.321	JB	0.0203	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.351	JB	0.0119	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0697	JB	0.0183	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0827	JB	0.0143	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0789	JQ	0.0161	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0727	JB	0.0119	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0915	JB	0.0156	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0661	JB	0.0155	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0294	JQ	0.0168	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0294	JBQ	0.0105	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0979	JBQ	0.0128	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0714	JB	0.0114	MDL	5.37	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0228	JQ	0.0165	MDL	1.07	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

1/3/2012 11:39:27 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-255-SA6-SB-2.0-3.0

**Collected:** 8/29/2011 8:45:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.0174	JQ	0.0159	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	0.651	JB	0.0294	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.265	JB	0.0325	MDL	10.7	PQL	ng/Kg	U	B

**Sample ID:** SL-267-SA6-SB-4.0-5.0

**Collected:** 8/30/2011 9:05:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.616	JB	0.0300	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.486	JB	0.0152	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0826	JB	0.0206	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.293	JB	0.0211	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0364	JQ	0.0246	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0764	JB	0.0187	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0592	JBQ	0.0241	MDL	4.92	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0446	JQ	0.0279	MDL	4.92	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.215	JB	0.0224	MDL	4.92	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.104	JB	0.0188	MDL	4.92	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0681	JB	0.0233	MDL	4.92	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.125	JQ	0.0250	MDL	0.984	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0222	JQ	0.0222	MDL	0.984	PQL	ng/Kg	J	Z
OCDD	3.06	JB	0.0292	MDL	9.84	PQL	ng/Kg	J	Z
OCDF	0.496	JB	0.0278	MDL	9.84	PQL	ng/Kg	U	B

**Sample ID:** SL-267-SA6-SB-9.0-10.0

**Collected:** 8/30/2011 9:15:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.490	JB	0.0241	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.370	JB	0.0108	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0527	JBQ	0.0175	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0209	JBQ	0.0158	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0863	JB	0.0148	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0255	JQ	0.0164	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0476	JB	0.0130	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0412	JBQ	0.0147	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0649	JB	0.0155	MDL	5.11	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-267-SA6-SB-9.0-10.0

**Collected:** 8/30/2011 9:15:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDD	0.0247	JQ	0.0154	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0244	JBQ	0.0102	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0908	JBQ	0.0135	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0777	JBQ	0.0101	MDL	5.11	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0380	J	0.0145	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0180	JQ	0.0133	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	2.19	JB	0.0290	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.303	JBQ	0.0276	MDL	10.2	PQL	ng/Kg	U	B

**Sample ID:** SL-270-SA6-SB-2.0-3.0

**Collected:** 8/31/2011 11:40:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.30	JB	0.0492	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.446	JB	0.0163	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0867	JB	0.0260	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0628	JBQ	0.0183	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.117	JB	0.0157	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.109	J	0.0185	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0895	JBQ	0.0145	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.130	JB	0.0172	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0960	JBQ	0.0179	MDL	5.07	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0673	J	0.0154	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0713	JB	0.0105	MDL	5.07	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.120	JB	0.0159	MDL	5.07	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0998	JB	0.0117	MDL	5.07	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0373	JQ	0.0193	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0245	J	0.0174	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	0.438	JB	0.0295	MDL	10.1	PQL	ng/Kg	U	B

**Sample ID:** SL-305-SA6-SB-2.0-3.0

**Collected:** 8/30/2011 12:00:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.346	JB	0.0189	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.379	JB	0.0115	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0550	JB	0.0177	MDL	5.25	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-305-SA6-SB-2.0-3.0

Collected: 8/30/2011 12:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0651	JB	0.0181	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.161	JB	0.0164	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0746	J	0.0185	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.131	JB	0.0138	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.0987	JB	0.0168	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.118	JB	0.0185	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.130	J	0.0168	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.174	JB	0.0143	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.145	JB	0.0153	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.197	JB	0.0139	MDL	5.25	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0479	J	0.0159	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0610	JQ	0.0181	MDL	1.05	PQL	ng/Kg	J	Z
OCDD	0.528	JB	0.0252	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.306	JB	0.0250	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-305-SA6-SS-0.0-0.5

Collected: 8/30/2011 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.587	JB	0.0676	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.489	JB	0.125	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	1.35	JB	0.174	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.34	J	0.123	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	1.02	JB	0.135	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.04	JB	0.119	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.368	JB	0.104	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.537	J	0.0433	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.612	JB	0.0977	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	1.66	JB	0.0884	MDL	5.24	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	4.74	JB	0.0928	MDL	5.24	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.138	J	0.0220	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.583	J	0.116	MDL	1.05	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-306-SA6-SB-4.0-5.0

Collected: 8/30/2011 2:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.350	JB	0.0293	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.440	JB	0.0156	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0583	JB	0.0241	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0779	JB	0.0163	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0608	JBQ	0.0145	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0452	JB	0.0151	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0600	JBQ	0.0180	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0170	JBQ	0.0120	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.106	JB	0.0146	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0673	JBQ	0.0120	MDL	5.18	PQL	ng/Kg	U	B
OCDD	0.857	JB	0.0414	MDL	10.4	PQL	ng/Kg	U	B
OCDF	0.307	JB	0.0394	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-306-SA6-SS-0.0-0.5

Collected: 8/30/2011 3:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.04	JB	0.0691	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.59	JB	0.0887	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.14	JB	0.0608	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.20	J	0.0888	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.950	JB	0.0553	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.48	JB	0.0829	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.495	JB	0.0607	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.323	J	0.0543	MDL	4.96	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.268	JB	0.0589	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.28	JB	0.0544	MDL	4.96	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.04	JB	0.0579	MDL	4.96	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0659	JQ	0.0188	MDL	0.991	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.201	J	0.0946	MDL	0.991	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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: DX131

Laboratory: LL

EDD Filename: DX131\_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: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX131

# Method Blank Outlier Report

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2490B371547	9/8/2011 3:47:00 PM	1,2,3,4,6,7,8-HPCDD 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-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 OCDD OCDF	2.69 pg/L 2.50 pg/L 0.533 pg/L 0.566 pg/L 0.432 pg/L 0.280 pg/L 0.290 pg/L 0.341 pg/L 0.212 pg/L 0.524 pg/L 5.61 pg/L 1.43 pg/L	EB-SA6-SB-083011

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-083011(RES)	1,2,3,4,6,7,8-HPCDD	2.92 pg/L	2.92U pg/L
EB-SA6-SB-083011(RES)	1,2,3,4,6,7,8-HPCDF	2.06 pg/L	2.06U pg/L
EB-SA6-SB-083011(RES)	1,2,3,4,7,8-HxCDF	0.360 pg/L	0.360U pg/L
EB-SA6-SB-083011(RES)	1,2,3,6,7,8-HxCDF	0.377 pg/L	0.377U pg/L
EB-SA6-SB-083011(RES)	1,2,3,7,8,9-HxCDD	0.250 pg/L	0.250U pg/L
EB-SA6-SB-083011(RES)	1,2,3,7,8,9-HxCDF	0.183 pg/L	0.183U pg/L
EB-SA6-SB-083011(RES)	2,3,4,6,7,8-HxCDF	0.309 pg/L	0.309U pg/L
EB-SA6-SB-083011(RES)	OCDD	4.69 pg/L	4.69U pg/L
EB-SA6-SB-083011(RES)	OCDF	1.76 pg/L	1.76U pg/L

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2490B371845	9/7/2011 6:45:00 PM	1,2,3,4,6,7,8-HPCDD 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-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	0.226 ng/Kg 0.213 ng/Kg 0.0451 ng/Kg 0.0185 ng/Kg 0.0589 ng/Kg 0.0232 ng/Kg 0.0213 ng/Kg 0.0299 ng/Kg 0.0175 ng/Kg 0.0940 ng/Kg 0.0541 ng/Kg 0.436 ng/Kg 0.215 ng/Kg	SL-192-SA6-SB-4.0-5.0 SL-192-SA6-SB-9.0-10.0 SL-198-SA6-SB-4.0-5.0 SL-198-SA6-SB-9.0-10.0 SL-199-SA6-SB-4.0-5.0 SL-200-SA6-SB-4.0-5.0 SL-201-SA6-SB-2.0-3.0 SL-213-SA6-SB-4.0-5.0 SL-249-SA6-SB-4.0-5.0 SL-253-SA6-SB-4.0-5.0 SL-255-SA6-SB-2.0-3.0 SL-267-SA6-SB-4.0-5.0 SL-267-SA6-SB-9.0-10.0 SL-270-SA6-SB-2.0-3.0 SL-305-SA6-SB-2.0-3.0 SL-305-SA6-SS-0.0-0.5 SL-306-SA6-SB-4.0-5.0 SL-306-SA6-SS-0.0-0.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
SL-192-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.153 ng/Kg	0.153U ng/Kg
SL-192-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0798 ng/Kg	0.0798U ng/Kg

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: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-192-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.197 ng/Kg	0.197U ng/Kg
SL-192-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0903 ng/Kg	0.0903U ng/Kg
SL-192-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.189 ng/Kg	0.189U ng/Kg
SL-192-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0991 ng/Kg	0.0991U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.160 ng/Kg	0.160U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0690 ng/Kg	0.0690U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.224 ng/Kg	0.224U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.162 ng/Kg	0.162U ng/Kg
SL-192-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0904 ng/Kg	0.0904U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.754 ng/Kg	0.754U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0764 ng/Kg	0.0764U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0340 ng/Kg	0.0340U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.116 ng/Kg	0.116U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0610 ng/Kg	0.0610U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0805 ng/Kg	0.0805U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.139 ng/Kg	0.139U ng/Kg
SL-198-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.114 ng/Kg	0.114U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0281 ng/Kg	0.0281U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.210 ng/Kg	0.210U ng/Kg
SL-198-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.144 ng/Kg	0.144U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.809 ng/Kg	0.809U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.710 ng/Kg	0.710U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0786 ng/Kg	0.0786U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0842 ng/Kg	0.0842U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0480 ng/Kg	0.0480U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0496 ng/Kg	0.0496U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.184 ng/Kg	0.184U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0983 ng/Kg	0.0983U ng/Kg
SL-199-SA6-SB-4.0-5.0(RES)	OCDF	0.521 ng/Kg	0.521U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.698 ng/Kg	0.698U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0913 ng/Kg	0.0913U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0294 ng/Kg	0.0294U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0795 ng/Kg	0.0795U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.115 ng/Kg	0.115U ng/Kg

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: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-200-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0421 ng/Kg	0.0421U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.166 ng/Kg	0.166U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0976 ng/Kg	0.0976U ng/Kg
SL-200-SA6-SB-4.0-5.0(RES)	OCDF	0.645 ng/Kg	0.645U ng/Kg
SL-201-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.222 ng/Kg	0.222U ng/Kg
SL-201-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.311 ng/Kg	0.311U ng/Kg
SL-201-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.205 ng/Kg	0.205U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.766 ng/Kg	0.766U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.428 ng/Kg	0.428U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0789 ng/Kg	0.0789U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0509 ng/Kg	0.0509U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.178 ng/Kg	0.178U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.152 ng/Kg	0.152U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.175 ng/Kg	0.175U ng/Kg
SL-213-SA6-SB-4.0-5.0(RES)	OCDF	0.510 ng/Kg	0.510U ng/Kg
SL-249-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.431 ng/Kg	0.431U ng/Kg
SL-249-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.257 ng/Kg	0.257U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.321 ng/Kg	0.321U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.351 ng/Kg	0.351U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0697 ng/Kg	0.0697U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0827 ng/Kg	0.0827U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0727 ng/Kg	0.0727U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.0915 ng/Kg	0.0915U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0661 ng/Kg	0.0661U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0294 ng/Kg	0.0294U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0979 ng/Kg	0.0979U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0714 ng/Kg	0.0714U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	OCDD	0.651 ng/Kg	0.651U ng/Kg
SL-255-SA6-SB-2.0-3.0(RES)	OCDF	0.265 ng/Kg	0.265U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.616 ng/Kg	0.616U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.486 ng/Kg	0.486U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0826 ng/Kg	0.0826U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.293 ng/Kg	0.293U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0764 ng/Kg	0.0764U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0592 ng/Kg	0.0592U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.104 ng/Kg	0.104U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0681 ng/Kg	0.0681U ng/Kg
SL-267-SA6-SB-4.0-5.0(RES)	OCDF	0.496 ng/Kg	0.496U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.490 ng/Kg	0.490U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.370 ng/Kg	0.370U ng/Kg

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: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-267-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0527 ng/Kg	0.0527U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0209 ng/Kg	0.0209U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDF	0.0863 ng/Kg	0.0863U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HxCDF	0.0476 ng/Kg	0.0476U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDD	0.0412 ng/Kg	0.0412U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HxCDF	0.0649 ng/Kg	0.0649U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0244 ng/Kg	0.0244U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HxCDF	0.0908 ng/Kg	0.0908U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0777 ng/Kg	0.0777U ng/Kg
SL-267-SA6-SB-9.0-10.0(RES)	OCDF	0.303 ng/Kg	0.303U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.446 ng/Kg	0.446U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0867 ng/Kg	0.0867U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0628 ng/Kg	0.0628U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDF	0.117 ng/Kg	0.117U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HxCDF	0.0895 ng/Kg	0.0895U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HxCDF	0.0960 ng/Kg	0.0960U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HxCDF	0.120 ng/Kg	0.120U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0998 ng/Kg	0.0998U ng/Kg
SL-270-SA6-SB-2.0-3.0(RES)	OCDF	0.438 ng/Kg	0.438U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.346 ng/Kg	0.346U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.379 ng/Kg	0.379U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0550 ng/Kg	0.0550U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDD	0.0651 ng/Kg	0.0651U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HxCDF	0.161 ng/Kg	0.161U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HxCDD	0.0987 ng/Kg	0.0987U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HxCDF	0.118 ng/Kg	0.118U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HxCDF	0.145 ng/Kg	0.145U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.197 ng/Kg	0.197U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	OCDD	0.528 ng/Kg	0.528U ng/Kg
SL-305-SA6-SB-2.0-3.0(RES)	OCDF	0.306 ng/Kg	0.306U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.350 ng/Kg	0.350U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.440 ng/Kg	0.440U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0583 ng/Kg	0.0583U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDF	0.0779 ng/Kg	0.0779U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HxCDF	0.0608 ng/Kg	0.0608U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HxCDF	0.0600 ng/Kg	0.0600U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0170 ng/Kg	0.0170U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HxCDF	0.106 ng/Kg	0.106U ng/Kg

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: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-306-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0673 ng/Kg	0.0673U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	OCDD	0.857 ng/Kg	0.857U ng/Kg
SL-306-SA6-SB-4.0-5.0(RES)	OCDF	0.307 ng/Kg	0.307U ng/Kg

# Reporting Limit Outliers

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-083011	1,2,3,4,6,7,8-HPCDD	JBQ	2.92	10.3	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	2.06	10.3	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.360	10.3	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JBQ	0.377	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.250	10.3	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.183	10.3	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.309	10.3	PQL	pg/L	
	2,3,4,7,8-PECDF	JQ	0.473	10.3	PQL	pg/L	
	OCDD	JBQ	4.69	20.6	PQL	pg/L	
	OCDF	JBQ	1.76	20.6	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-192-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.52	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.12	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.153	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0798	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.197	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.200	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.152	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.158	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0903	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0587	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0986	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.189	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0991	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0284	1.05	PQL	ng/Kg	
	OCDF	JB	1.45	10.5	PQL	ng/Kg	
SL-192-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDF	JB	1.27	5.32	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.160	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0690	5.32	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.224	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.230	5.32	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.119	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.178	5.32	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.126	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0290	5.32	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0913	5.32	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.162	5.32	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0904	5.32	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0349	1.06	PQL	ng/Kg	
	OCDF	JB	2.15	10.6	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-198-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	2.17	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.754	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0764	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0340	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.116	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.121	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0610	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.149	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.165	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0375	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0805	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.139	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.114	5.21	PQL	ng/Kg	
	OCDF	JB	1.15	10.4	PQL	ng/Kg	
SL-198-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.97	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.08	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.115	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0281	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.170	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.150	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.107	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.226	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.269	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0369	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.121	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.210	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.144	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0512	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0393	1.07	PQL	ng/Kg	
	OCDF	JB	1.21	10.7	PQL	ng/Kg	
SL-199-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.809	5.41	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.710	5.41	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0786	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.117	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.0514	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0842	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0480	5.41	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0496	5.41	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.184	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0983	5.41	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0311	1.08	PQL	ng/Kg	
	OCDD	JB	5.37	10.8	PQL	ng/Kg	
	OCDF	JB	0.521	10.8	PQL	ng/Kg	
SL-200-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.37	5.55	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.698	5.55	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0913	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0294	5.55	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.140	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.0786	5.55	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0795	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.116	5.55	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.115	5.55	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0421	5.55	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.166	5.55	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0976	5.55	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0261	1.11	PQL	ng/Kg	
	OCDD	JB	8.74	11.1	PQL	ng/Kg	
	OCDF	JB	0.645	11.1	PQL	ng/Kg	

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: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-201-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDF	JB	4.33	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.416	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.265	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.222	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.984	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.166	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.294	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.166	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.114	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.191	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.311	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.205	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0431	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0895	1.00	PQL	ng/Kg	
SL-213-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.766	5.29	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.428	5.29	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0789	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0509	5.29	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.178	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.194	5.29	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.131	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.278	5.29	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.229	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.156	5.29	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.216	5.29	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.152	5.29	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.175	5.29	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0529	1.06	PQL	ng/Kg	
	OCDD	JB	5.58	10.6	PQL	ng/Kg	
	OCDF	JB	0.510	10.6	PQL	ng/Kg	
SL-249-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	4.82	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.446	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.283	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.559	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.610	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.328	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.379	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.298	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.117	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.286	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.431	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.257	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0253	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0506	1.05	PQL	ng/Kg	
	OCDF	JB	8.95	10.5	PQL	ng/Kg	
SL-253-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	0.451	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.221	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.772	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	2.92	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.514	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.01	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.239	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0981	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.446	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.562	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.452	5.17	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.414	1.03	PQL	ng/Kg	
	OCDF	JB	8.13	10.3	PQL	ng/Kg	

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: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-255-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.321	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.351	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0697	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0827	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0789	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0727	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0915	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0661	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0294	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0294	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0979	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0714	5.37	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0228	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0174	1.07	PQL	ng/Kg	
	OCDD	JB	0.651	10.7	PQL	ng/Kg	
	OCDF	JB	0.265	10.7	PQL	ng/Kg	
SL-267-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.616	4.92	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.486	4.92	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0826	4.92	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.293	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0364	4.92	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0764	4.92	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0592	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0446	4.92	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.215	4.92	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.104	4.92	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0681	4.92	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.125	0.984	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0222	0.984	PQL	ng/Kg	
	OCDD	JB	3.06	9.84	PQL	ng/Kg	
	OCDF	JB	0.496	9.84	PQL	ng/Kg	
SL-267-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.490	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.370	5.11	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0527	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0209	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0863	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0255	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0476	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0412	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0649	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0247	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0244	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0908	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0777	5.11	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0380	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0180	1.02	PQL	ng/Kg	
	OCDD	JB	2.19	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.303	10.2	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-270-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	1.30	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.446	5.07	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0867	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0628	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.117	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.109	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0895	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.130	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0960	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0673	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0713	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.120	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0998	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0373	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0245	1.01	PQL	ng/Kg	
	OCDF	JB	0.438	10.1	PQL	ng/Kg	
SL-305-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	0.346	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.379	5.25	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0550	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0651	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.161	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.0746	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.131	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0987	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.118	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.130	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.174	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.145	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.197	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0479	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0610	1.05	PQL	ng/Kg	
	OCDD	JB	0.528	10.5	PQL	ng/Kg	
	OCDF	JB	0.306	10.5	PQL	ng/Kg	
SL-305-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.587	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.489	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.35	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	1.34	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.02	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.04	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.368	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.537	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.612	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.66	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	4.74	5.24	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.138	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.583	1.05	PQL	ng/Kg	
SL-306-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.350	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.440	5.18	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0583	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0779	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0608	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0452	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0600	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0170	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.106	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0673	5.18	PQL	ng/Kg	
	OCDD	JB	0.857	10.4	PQL	ng/Kg	
	OCDF	JB	0.307	10.4	PQL	ng/Kg	

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: DX131

Laboratory: LL

EDD Filename: DX131\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-306-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.04	4.96	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.59	4.96	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.14	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	2.20	4.96	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.950	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.48	4.96	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JB	0.495	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.323	4.96	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.268	4.96	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.28	4.96	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.04	4.96	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0659	0.991	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.201	0.991	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX132**



## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
01-Sep-2011	SL-258-SA6-SB-0.0-0.83	6395215	N	METHOD	1613B	IV
01-Sep-2011	SL-262-SA6-SB-4.0-5.0	6395216	N	METHOD	1613B	IV
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MS	6395217	MS	METHOD	1613B	IV
01-Sep-2011	SL-262-SA6-SB-4.0-5.0MSD	6395218	MSD	METHOD	1613B	IV
01-Sep-2011	DUP14-SA6-QC-090111	6395221	FD	METHOD	1613B	IV
01-Sep-2011	SL-266-SA6-SB-4.0-5.0	6395220	N	METHOD	1613B	IV
01-Sep-2011	SL-264-SA6-SB-0.4-1.4	6395219	N	METHOD	1613B	IV
06-Sep-2011	SL-263-SA6-SB-4.0-5.0	6397906	N	METHOD	1613B	IV
06-Sep-2011	SL-263-SA6-SB-9.0-10.0	6397907	N	METHOD	1613B	IV
06-Sep-2011	SL-261-SA6-SB-1.5-2.5	6397904	N	METHOD	1613B	IV
06-Sep-2011	SL-261-SA6-SB-9.0-10.0	6397905	N	METHOD	1613B	IV
06-Sep-2011	SL-204-SA6-SB-4.0-5.0	6397903	N	METHOD	1613B	IV
07-Sep-2011	SL-311-SA6-SB-2.0-3.0	6400464	N	METHOD	1613B	IV
07-Sep-2011	SL-205-SA6-SB-4.0-5.0	6400463	N	METHOD	1613B	IV
07-Sep-2011	EB-SA6-SB-090711	6400465	EB	METHOD	1613B	IV

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: AQ

Sample ID: EB-SA6-SB-090711

Collected: 9/7/2011 1:00:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.78	JB	0.496	MDL	9.85	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	2.98	JBQ	0.239	MDL	9.85	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.355	JBQ	0.280	MDL	9.85	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.618	JBQ	0.307	MDL	9.85	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDF	0.297	JBQ	0.211	MDL	9.85	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.296	JQ	0.197	MDL	9.85	PQL	pg/L	J	Z
1,2,3,7,8,9-HxCDD	0.436	JBQ	0.284	MDL	9.85	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	0.324	JBQ	0.147	MDL	9.85	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.309	JBQ	0.179	MDL	9.85	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.684	JBQ	0.184	MDL	9.85	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.344	JBQ	0.156	MDL	9.85	PQL	pg/L	U	B
OCDD	6.01	JBQ	0.294	MDL	19.7	PQL	pg/L	U	B
OCDF	2.71	JB	0.397	MDL	19.7	PQL	pg/L	U	B

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: DUP14-SA6-QC-090111

Collected: 9/1/2011 9:23:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.297	JB	0.0183	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.187	JB	0.00932	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0361	JB	0.0151	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0602	JB	0.0115	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0375	JBQ	0.0147	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0267	JB	0.00954	MDL	5.49	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0327	JBQ	0.0137	MDL	5.49	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDF	0.0345	JB	0.0102	MDL	5.49	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.0296	JBQ	0.0101	MDL	5.49	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HxCDF	0.0523	JBQ	0.0101	MDL	5.49	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0657	JBQ	0.0118	MDL	5.49	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0186	J	0.0156	MDL	1.10	PQL	ng/Kg	J	Z, FD
OCDD	0.818	JB	0.0323	MDL	11.0	PQL	ng/Kg	UJ	B, FD
OCDF	0.168	JB	0.0229	MDL	11.0	PQL	ng/Kg	UJ	B, FD

\* denotes a non-reportable result

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

1/4/2012 8:54:28 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-204-SA6-SB-4.0-5.0

Collected: 9/6/2011 12:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.704	JB	0.0344	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.299	JB	0.0108	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0812	JBQ	0.0204	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0678	J	0.0179	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.157	JBQ	0.0197	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0670	JBQ	0.0187	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.114	JBQ	0.0164	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0649	JB	0.0159	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0860	JB	0.0197	MDL	5.36	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.167	JB	0.0170	MDL	5.36	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.193	JB	0.0124	MDL	5.36	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.125	JB	0.0156	MDL	5.36	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.208	JB	0.0138	MDL	5.36	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0539	JQ	0.0174	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0632	J	0.0172	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	7.69	JB	0.0296	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.535	JB	0.0298	MDL	10.7	PQL	ng/Kg	U	B

Sample ID: SL-205-SA6-SB-4.0-5.0

Collected: 9/7/2011 11:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.991	JB	0.0322	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.447	JB	0.0133	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0831	JBQ	0.0266	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.148	JB	0.0197	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0407	JB	0.0151	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.113	JBQ	0.0164	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0520	JB	0.0140	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0328	JBQ	0.0249	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0162	JBQ	0.0161	MDL	5.45	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.719	JB	0.0348	MDL	5.45	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0869	JB	0.0193	MDL	5.45	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.206	JBQ	0.0377	MDL	5.45	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.360	J	0.0685	MDL	1.09	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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ADR version 1.4.0.111

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# Data Qualifier Summary

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-205-SA6-SB-4.0-5.0

Collected: 9/7/2011 11:24:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDD	10.4	JB	0.0223	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	1.04	JB	0.0317	MDL	10.9	PQL	ng/Kg	J	Z

Sample ID: SL-258-SA6-SB-0.0-0.83

Collected: 9/1/2011 8:08:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.12	JB	0.0514	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.901	J	0.105	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.87	JB	0.0639	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.75	JB	0.108	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.755	JB	0.0542	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.30	JB	0.102	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.317	JB	0.0592	MDL	5.07	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.300	JB	0.0481	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.831	JB	0.0609	MDL	5.07	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.611	JB	0.0461	MDL	5.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0449	JQ	0.0202	MDL	1.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.296	JQ	0.0476	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-261-SA6-SB-1.5-2.5

Collected: 9/6/2011 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.63	JB	0.0146	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.184	JB	0.0273	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.197	J	0.0542	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.382	JB	0.0490	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.587	JB	0.0537	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.313	JB	0.0392	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.539	JB	0.0455	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.406	JB	0.0594	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.408	JB	0.0300	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.604	JB	0.0168	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.296	JB	0.0476	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.540	JB	0.0187	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.108	J	0.0159	MDL	1.10	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-261-SA6-SB-1.5-2.5

Collected: 9/6/2011 10:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.479	J	0.0322	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	3.73	JB	0.0295	MDL	11.0	PQL	ng/Kg	J	Z

Sample ID: SL-261-SA6-SB-9.0-10.0

Collected: 9/6/2011 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.334	JB	0.0210	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.245	JB	0.0102	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0780	JB	0.0225	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.131	JQ	0.0196	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.257	JB	0.0230	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.124	JB	0.0184	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.185	JB	0.0171	MDL	5.48	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.102	JB	0.0190	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.183	JB	0.0305	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.284	JB	0.0188	MDL	5.48	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.345	JBQ	0.0138	MDL	5.48	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.165	JB	0.0217	MDL	5.48	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.347	JB	0.0156	MDL	5.48	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.102	JQ	0.0181	MDL	1.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.118	JQ	0.0186	MDL	1.10	PQL	ng/Kg	J	Z
OCDD	0.621	JB	0.0290	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.251	JB	0.0281	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-262-SA6-SB-4.0-5.0

Collected: 9/1/2011 9:15:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.353	JB	0.0218	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.166	JB	0.0119	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0351	JBQ	0.0175	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0458	JBQ	0.0178	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0451	JBQ	0.0171	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0320	JB	0.0136	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0762	JBQ	0.0152	MDL	5.44	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDF	0.0112	U	0.0112	MDL	5.44	PQL	ng/Kg	UJ	FD

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-262-SA6-SB-4.0-5.0

**Collected:** 9/1/2011 9:15:00 AM

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0147	JBQ	0.00930	MDL	5.44	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0625	JBQ	0.00952	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0569	JB	0.0118	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0164	U	0.0164	MDL	1.09	PQL	ng/Kg	UJ	FD
OCDD	2.08	JB	0.0302	MDL	10.9	PQL	ng/Kg	J	Z, FD
OCDF	0.343	JB	0.0278	MDL	10.9	PQL	ng/Kg	UJ	B, FD

**Sample ID:** SL-263-SA6-SB-4.0-5.0

**Collected:** 9/6/2011 8:40:00 AM

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.363	JB	0.0182	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.230	JBQ	0.00891	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0567	JB	0.0154	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0536	J	0.0140	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.135	JB	0.0146	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0493	JBQ	0.0153	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.106	JB	0.0124	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0762	JBQ	0.0135	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.101	JB	0.0163	MDL	5.44	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.132	JBQ	0.0174	MDL	5.44	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.178	JB	0.0101	MDL	5.44	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0906	JB	0.0123	MDL	5.44	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.163	JB	0.0103	MDL	5.44	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0590	J	0.0146	MDL	1.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0577	JQ	0.0138	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	1.37	JB	0.0315	MDL	10.9	PQL	ng/Kg	U	B
OCDF	0.258	JB	0.0234	MDL	10.9	PQL	ng/Kg	U	B

**Sample ID:** SL-263-SA6-SB-9.0-10.0

**Collected:** 9/6/2011 8:44:00 AM

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.250	JB	0.0153	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.196	JB	0.00777	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0360	JBQ	0.0146	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0565	JB	0.0120	MDL	5.57	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-263-SA6-SB-9.0-10.0

Collected: 9/6/2011 8:44:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,6,7,8-HXCDD	0.0205	JBQ	0.0141	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0287	JBQ	0.0100	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0196	JBQ	0.0123	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0262	JB	0.0153	MDL	5.57	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0175	JBQ	0.0104	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0616	JBQ	0.0111	MDL	5.57	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0485	JB	0.0111	MDL	5.57	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0205	JQ	0.0166	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	0.522	JB	0.0255	MDL	11.1	PQL	ng/Kg	U	B
OCDF	0.205	JB	0.0242	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-264-SA6-SB-0.4-1.4

Collected: 9/1/2011 12:08:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.09	JB	0.0346	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.654	JB	0.0158	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.105	JBQ	0.0296	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0819	JQ	0.0261	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.117	JB	0.0191	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.134	JB	0.0280	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0869	JB	0.0151	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.165	JB	0.0241	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.143	JB	0.0211	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0749	JBQ	0.0218	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0720	JBQ	0.00996	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.110	JBQ	0.0160	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.121	JB	0.0113	MDL	5.09	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0193	JQ	0.0131	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	1.42	JB	0.0414	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-266-SA6-SB-4.0-5.0

Collected: 9/1/2011 9:33:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.01	JB	0.0381	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.380	JB	0.0133	MDL	5.38	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-266-SA6-SB-4.0-5.0

Collected: 9/1/2011 9:33:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0775	JBQ	0.0238	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0604	JB	0.0147	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0679	JBQ	0.0180	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDF	0.0335	JBQ	0.0116	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.102	JBQ	0.0157	MDL	5.38	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.110	JBQ	0.0153	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0224	JBQ	0.0148	MDL	5.38	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0300	JBQ	0.0107	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0548	JB	0.0118	MDL	5.38	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0564	JBQ	0.0116	MDL	5.38	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0213	JQ	0.0166	MDL	1.08	PQL	ng/Kg	J	Z
OCDD	10.4	JB	0.0345	MDL	10.8	PQL	ng/Kg	J	Z
OCDF	0.769	JB	0.0314	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-311-SA6-SB-2.0-3.0

Collected: 9/7/2011 9:20:00 AM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.47	JB	0.0284	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.666	JB	0.0187	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0913	JB	0.0343	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.147	JB	0.0255	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.111	JB	0.0233	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.131	JB	0.0212	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.111	JB	0.0208	MDL	5.33	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0717	JBQ	0.0271	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0246	JB	0.0147	MDL	5.33	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0742	JBQ	0.0142	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.118	JB	0.0233	MDL	5.33	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.178	JBQ	0.0156	MDL	5.33	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.203	J	0.0265	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	9.15	JB	0.0254	MDL	10.7	PQL	ng/Kg	J	Z
OCDF	0.786	JB	0.0289	MDL	10.7	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX132

EDD Filename: DX132\_v1

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

1/4/2012 8:54:29 AM

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## Data Qualifier Summary

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_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: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

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

\* denotes a non-reportable result

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

DX132



# Method Blank Outlier Report

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

<b>Method: 1613B</b> <b>Matrix: AQ</b>				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2560B372026	9/14/2011 8:26:00 PM	1,2,3,4,6,7,8-HPCDD 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 1,2,3,7,8,9-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 2,3,7,8-TCDD OCDD OCDF	2.87 pg/L 2.13 pg/L 0.770 pg/L 0.441 pg/L 0.529 pg/L 0.617 pg/L 0.652 pg/L 0.522 pg/L 0.426 pg/L 0.833 pg/L 0.637 pg/L 0.680 pg/L 4.54 pg/L 1.21 pg/L	EB-SA6-SB-090711

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

Sample ID	Analyte	Reported Result	Modified Final Result
EB-SA6-SB-090711(RES)	1,2,3,4,6,7,8-HPCDD	2.78 pg/L	2.78U pg/L
EB-SA6-SB-090711(RES)	1,2,3,4,6,7,8-HPCDF	2.98 pg/L	2.98U pg/L
EB-SA6-SB-090711(RES)	1,2,3,4,7,8,9-HPCDF	0.355 pg/L	0.355U pg/L
EB-SA6-SB-090711(RES)	1,2,3,4,7,8-HxCDD	0.618 pg/L	0.618U pg/L
EB-SA6-SB-090711(RES)	1,2,3,4,7,8-HxCDF	0.297 pg/L	0.297U pg/L
EB-SA6-SB-090711(RES)	1,2,3,7,8,9-HxCDD	0.436 pg/L	0.436U pg/L
EB-SA6-SB-090711(RES)	1,2,3,7,8,9-HxCDF	0.324 pg/L	0.324U pg/L
EB-SA6-SB-090711(RES)	1,2,3,7,8-PECDF	0.309 pg/L	0.309U pg/L
EB-SA6-SB-090711(RES)	2,3,4,6,7,8-HxCDF	0.684 pg/L	0.684U pg/L
EB-SA6-SB-090711(RES)	2,3,4,7,8-PECDF	0.344 pg/L	0.344U pg/L
EB-SA6-SB-090711(RES)	OCDD	6.01 pg/L	6.01U pg/L
EB-SA6-SB-090711(RES)	OCDF	2.71 pg/L	2.71U pg/L

<b>Method: 1613B</b> <b>Matrix: SO</b>				
Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2570B372148	9/16/2011 9:48:00 PM	1,2,3,4,6,7,8-HPCDD 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	0.215 ng/Kg 0.214 ng/Kg 0.0353 ng/Kg 0.0509 ng/Kg 0.0140 ng/Kg 0.0471 ng/Kg 0.0192 ng/Kg 0.0275 ng/Kg 0.0158 ng/Kg 0.0181 ng/Kg 0.0795 ng/Kg 0.0560 ng/Kg 0.396 ng/Kg 0.179 ng/Kg	DUP14-SA6-QC-090111 SL-204-SA6-SB-4.0-5.0 SL-205-SA6-SB-4.0-5.0 SL-258-SA6-SB-0.0-0.83 SL-261-SA6-SB-1.5-2.5 SL-261-SA6-SB-9.0-10.0 SL-262-SA6-SB-4.0-5.0 SL-263-SA6-SB-4.0-5.0 SL-263-SA6-SB-9.0-10.0 SL-264-SA6-SB-0.4-1.4 SL-266-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0

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

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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
DUP14-SA6-QC-090111(RES)	1,2,3,4,6,7,8-HPCDD	0.297 ng/Kg	0.297U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,4,6,7,8-HPCDF	0.187 ng/Kg	0.187U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,4,7,8,9-HPCDF	0.0361 ng/Kg	0.0361U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,4,7,8-HXCDF	0.0602 ng/Kg	0.0602U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,6,7,8-HXCDD	0.0375 ng/Kg	0.0375U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,6,7,8-HXCDF	0.0267 ng/Kg	0.0267U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,7,8,9-HXCDD	0.0327 ng/Kg	0.0327U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,7,8,9-HXCDF	0.0345 ng/Kg	0.0345U ng/Kg
DUP14-SA6-QC-090111(RES)	1,2,3,7,8-PECDF	0.0296 ng/Kg	0.0296U ng/Kg
DUP14-SA6-QC-090111(RES)	2,3,4,6,7,8-HXCDF	0.0523 ng/Kg	0.0523U ng/Kg
DUP14-SA6-QC-090111(RES)	2,3,4,7,8-PECDF	0.0657 ng/Kg	0.0657U ng/Kg
DUP14-SA6-QC-090111(RES)	OCDD	0.818 ng/Kg	0.818U ng/Kg
DUP14-SA6-QC-090111(RES)	OCDF	0.168 ng/Kg	0.168U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.704 ng/Kg	0.704U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.299 ng/Kg	0.299U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0812 ng/Kg	0.0812U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.157 ng/Kg	0.157U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0670 ng/Kg	0.0670U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.114 ng/Kg	0.114U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0649 ng/Kg	0.0649U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0860 ng/Kg	0.0860U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.125 ng/Kg	0.125U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.208 ng/Kg	0.208U ng/Kg
SL-204-SA6-SB-4.0-5.0(RES)	OCDF	0.535 ng/Kg	0.535U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.991 ng/Kg	0.991U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.447 ng/Kg	0.447U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0831 ng/Kg	0.0831U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.148 ng/Kg	0.148U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0407 ng/Kg	0.0407U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.113 ng/Kg	0.113U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0520 ng/Kg	0.0520U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0328 ng/Kg	0.0328U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0162 ng/Kg	0.0162U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-205-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.206 ng/Kg	0.206U ng/Kg
SL-261-SA6-SB-1.5-2.5(RES)	2,3,4,6,7,8-HXCDF	0.296 ng/Kg	0.296U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.334 ng/Kg	0.334U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.245 ng/Kg	0.245U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0780 ng/Kg	0.0780U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.185 ng/Kg	0.185U ng/Kg

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: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-261-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.165 ng/Kg	0.165U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	OCDD	0.621 ng/Kg	0.621U ng/Kg
SL-261-SA6-SB-9.0-10.0(RES)	OCDF	0.251 ng/Kg	0.251U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.353 ng/Kg	0.353U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0351 ng/Kg	0.0351U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0458 ng/Kg	0.0458U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0451 ng/Kg	0.0451U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0762 ng/Kg	0.0762U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0147 ng/Kg	0.0147U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0625 ng/Kg	0.0625U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0569 ng/Kg	0.0569U ng/Kg
SL-262-SA6-SB-4.0-5.0(RES)	OCDF	0.343 ng/Kg	0.343U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.363 ng/Kg	0.363U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.230 ng/Kg	0.230U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0567 ng/Kg	0.0567U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.135 ng/Kg	0.135U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0493 ng/Kg	0.0493U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.106 ng/Kg	0.106U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0762 ng/Kg	0.0762U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0906 ng/Kg	0.0906U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.163 ng/Kg	0.163U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	OCDD	1.37 ng/Kg	1.37U ng/Kg
SL-263-SA6-SB-4.0-5.0(RES)	OCDF	0.258 ng/Kg	0.258U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.250 ng/Kg	0.250U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.196 ng/Kg	0.196U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0360 ng/Kg	0.0360U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.0565 ng/Kg	0.0565U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDD	0.0205 ng/Kg	0.0205U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0287 ng/Kg	0.0287U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0196 ng/Kg	0.0196U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0262 ng/Kg	0.0262U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0175 ng/Kg	0.0175U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0616 ng/Kg	0.0616U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0485 ng/Kg	0.0485U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	OCDD	0.522 ng/Kg	0.522U ng/Kg
SL-263-SA6-SB-9.0-10.0(RES)	OCDF	0.205 ng/Kg	0.205U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	1,2,3,4,6,7,8-HPCDF	0.654 ng/Kg	0.654U ng/Kg

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: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
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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-264-SA6-SB-0.4-1.4(RES)	1,2,3,4,7,8,9-HPCDF	0.105 ng/Kg	0.105U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	1,2,3,4,7,8-HXCDF	0.117 ng/Kg	0.117U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	1,2,3,6,7,8-HXCDF	0.0869 ng/Kg	0.0869U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	1,2,3,7,8-PECDD	0.0749 ng/Kg	0.0749U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	1,2,3,7,8-PECDF	0.0720 ng/Kg	0.0720U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	2,3,4,6,7,8-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-264-SA6-SB-0.4-1.4(RES)	2,3,4,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	1.01 ng/Kg	1.01U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.380 ng/Kg	0.380U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0775 ng/Kg	0.0775U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0604 ng/Kg	0.0604U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0679 ng/Kg	0.0679U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0335 ng/Kg	0.0335U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0224 ng/Kg	0.0224U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0300 ng/Kg	0.0300U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0548 ng/Kg	0.0548U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0564 ng/Kg	0.0564U ng/Kg
SL-266-SA6-SB-4.0-5.0(RES)	OCDF	0.769 ng/Kg	0.769U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.666 ng/Kg	0.666U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0913 ng/Kg	0.0913U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.147 ng/Kg	0.147U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.131 ng/Kg	0.131U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0717 ng/Kg	0.0717U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDD	0.0246 ng/Kg	0.0246U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0742 ng/Kg	0.0742U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.118 ng/Kg	0.118U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.178 ng/Kg	0.178U ng/Kg
SL-311-SA6-SB-2.0-3.0(RES)	OCDF	0.786 ng/Kg	0.786U ng/Kg

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# Field Duplicate RPD Report

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
MOISTURE	8.6	9.9	14		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
1,2,3,4,6,7,8-HPCDD	0.353	0.297	17	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.166	0.187	12	50.00	
1,2,3,4,7,8,9-HPCDF	0.0351	0.0361	3	50.00	
1,2,3,4,7,8-HXCDF	0.0458	0.0602	27	50.00	
1,2,3,6,7,8-HXCDD	0.0451	0.0375	18	50.00	
1,2,3,6,7,8-HXCDF	0.0320	0.0267	18	50.00	
2,3,4,6,7,8-HXCDF	0.0625	0.0523	18	50.00	
2,3,4,7,8-PECDF	0.0569	0.0657	14	50.00	
1,2,3,7,8,9-HXCDD	0.0762	0.0327	80	50.00	J(all detects) UJ(all non-detects)
1,2,3,7,8,9-HXCDF	5.44 U	0.0345	200	50.00	
1,2,3,7,8-PECDF	0.0147	0.0296	67	50.00	
2,3,7,8-TCDF	1.09 U	0.0186	200	50.00	
OCDD	2.08	0.818	87	50.00	
OCDF	0.343	0.168	68	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA6-SB-090711	1,2,3,4,6,7,8-HPCDD	JB	2.78	9.85	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	2.98	9.85	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.355	9.85	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JBQ	0.618	9.85	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JBQ	0.297	9.85	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JQ	0.296	9.85	PQL	pg/L	
	1,2,3,7,8,9-HXCDD	JBQ	0.436	9.85	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JBQ	0.324	9.85	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.309	9.85	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.684	9.85	PQL	pg/L	
	2,3,4,7,8-PECDF	JBQ	0.344	9.85	PQL	pg/L	
	OCDD	JBQ	6.01	19.7	PQL	pg/L	
	OCDF	JB	2.71	19.7	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP14-SA6-QC-090111	1,2,3,4,6,7,8-HPCDD	JB	0.297	5.49	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.187	5.49	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0361	5.49	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0602	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0375	5.49	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0267	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0327	5.49	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0345	5.49	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0296	5.49	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0523	5.49	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0657	5.49	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0186	1.10	PQL	ng/Kg	
	OCDD	JB	0.818	11.0	PQL	ng/Kg	
	OCDF	JB	0.168	11.0	PQL	ng/Kg	
SL-204-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.704	5.36	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.299	5.36	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0812	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0678	5.36	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.157	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0670	5.36	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.114	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0649	5.36	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0860	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.167	5.36	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.193	5.36	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.125	5.36	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.208	5.36	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0539	1.07	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0632	1.07	PQL	ng/Kg	
	OCDD	JB	7.69	10.7	PQL	ng/Kg	
	OCDF	JB	0.535	10.7	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-205-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.991	5.45	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.447	5.45	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0831	5.45	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.148	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0407	5.45	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.113	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.0520	5.45	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0328	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0162	5.45	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.719	5.45	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0869	5.45	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.206	5.45	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.360	1.09	PQL	ng/Kg	
	OCDD	JB	10.4	10.9	PQL	ng/Kg	
	OCDF	JB	1.04	10.9	PQL	ng/Kg	
SL-258-SA6-SB-0.0-0.83	1,2,3,4,7,8,9-HPCDF	JB	1.12	5.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.901	5.07	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.87	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	1.75	5.07	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.755	5.07	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	1.30	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.317	5.07	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.300	5.07	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.831	5.07	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.611	5.07	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0449	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.296	1.01	PQL	ng/Kg	
SL-261-SA6-SB-1.5-2.5	1,2,3,4,6,7,8-HPCDF	JB	1.63	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.184	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.197	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.382	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.587	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.313	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.539	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.406	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.408	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.604	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.296	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.540	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.108	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.479	1.10	PQL	ng/Kg	
	OCDF	JB	3.73	11.0	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-261-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.334	5.48	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.245	5.48	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0780	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.131	5.48	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.257	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.124	5.48	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.185	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.102	5.48	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.183	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.284	5.48	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.345	5.48	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.165	5.48	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.347	5.48	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.102	1.10	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.118	1.10	PQL	ng/Kg	
	OCDD	JB	0.621	11.0	PQL	ng/Kg	
	OCDF	JB	0.251	11.0	PQL	ng/Kg	
SL-262-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.353	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.166	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0351	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0458	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0451	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0320	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0762	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0147	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0625	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0569	5.44	PQL	ng/Kg	
	OCDD	JB	2.08	10.9	PQL	ng/Kg	
	OCDF	JB	0.343	10.9	PQL	ng/Kg	
SL-263-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.363	5.44	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.230	5.44	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0567	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0536	5.44	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.135	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0493	5.44	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.106	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.0762	5.44	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.101	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.132	5.44	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.178	5.44	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0906	5.44	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.163	5.44	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0590	1.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0577	1.09	PQL	ng/Kg	
	OCDD	JB	1.37	10.9	PQL	ng/Kg	
	OCDF	JB	0.258	10.9	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-263-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.250	5.57	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.196	5.57	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0360	5.57	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0565	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0205	5.57	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0287	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0196	5.57	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0262	5.57	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0175	5.57	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0616	5.57	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0485	5.57	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0205	1.11	PQL	ng/Kg	
	OCDD	JB	0.522	11.1	PQL	ng/Kg	
	OCDF	JB	0.205	11.1	PQL	ng/Kg	
SL-264-SA6-SB-0.4-1.4	1,2,3,4,6,7,8-HPCDD	JB	2.09	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.654	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.105	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0819	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.117	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.134	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0869	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.165	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.143	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0749	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0720	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.110	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.121	5.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0193	1.02	PQL	ng/Kg	
	OCDF	JB	1.42	10.2	PQL	ng/Kg	
SL-266-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	1.01	5.38	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.380	5.38	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0775	5.38	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.0604	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0679	5.38	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0335	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.102	5.38	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.110	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0224	5.38	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0300	5.38	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0548	5.38	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0564	5.38	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0213	1.08	PQL	ng/Kg	
	OCDD	JB	10.4	10.8	PQL	ng/Kg	
	OCDF	JB	0.769	10.8	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX132

Laboratory: LL

EDD Filename: DX132\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-311-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	1.47	5.33	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.666	5.33	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0913	5.33	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.147	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.111	5.33	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.131	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.111	5.33	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0717	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0246	5.33	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0742	5.33	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.118	5.33	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.178	5.33	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.203	1.07	PQL	ng/Kg	
	OCDD	JB	9.15	10.7	PQL	ng/Kg	
	OCDF	JB	0.786	10.7	PQL	ng/Kg	

## **Enclosure II**

### **Level IV Validation Reports**

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

**Project/Site Name:** Santa Susana Field Laboratory  
**Collection Date:** September 1 through September 7, 2011  
**LDC Report Date:** December 28, 2011  
**Matrix:** Soil/Water  
**Parameters:** Dioxins/Dibenzofurans  
**Validation Level:** Level IV  
**Laboratory:** Lancaster Laboratories  
**Sample Delivery Group (SDG):** DX132

### **Sample Identification**

SL-258-SA6-SB-0.0-0.83  
SL-262-SA6-SB-4.0-5.0  
SL-264-SA6-SB-0.4-1.4  
SL-266-SA6-SB-4.0-5.0  
DUP14-SA6-QC-090111  
SL-204-SA6-SB-4.0-5.0  
SL-261-SA6-SB-1.5-2.5  
SL-261-SA6-SB-9.0-10.0  
SL-263-SA6-SB-4.0-5.0  
SL-263-SA6-SB-9.0-10.0  
SL-205-SA6-SB-4.0-5.0  
SL-311-SA6-SB-2.0-3.0  
EB-SA6-WB-090711  
SL-262-SA6-SB-4.0-5.0MS  
SL-262-SA6-SB-4.0-5.0MSD

## Introduction

This data review covers 14 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1613B for Polychlorinated Dioxins/Dibenzofurans.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and the USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (September 2005).

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

The following are definitions of the data qualifiers:

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

## **I. Technical Holding Times**

All technical holding time requirements were met.

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

## **II. HRGC/HRMS Instrument Performance Check**

Instrument performance was checked at the required daily frequency.

The chromatographic resolution between 2,3,7,8-TCDD and the peaks representing any other unlabeled TCDD isomers was resolved with a valley of less than or equal to 25%.

PFK and static resolving power were within validation criteria.

## **III. Initial Calibration**

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 35.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

The minimum S/N ratio was greater than or equal to 10 for each unlabeled compound and labeled compound.

## **IV. Routine Calibration (Continuing)**

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were within QC limits.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
BLK26001	9/13/11	2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.680 pg/L 0.426 pg/L 0.637 pg/L 0.529 pg/L 0.833 pg/L 0.441 pg/L 0.617 pg/L 0.652 pg/L 0.522 pg/L 2.13 pg/L 2.87 pg/L 0.770 pg/L 4.54 pg/L 1.21 pg/L	All water samples in SDG DX132
BLK257002	9/15/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0181 ng/Kg 0.0560 ng/Kg 0.0158 ng/Kg 0.0509 ng/Kg 0.0471 ng/Kg 0.0795 ng/Kg 0.0140 ng/Kg 0.0192 ng/Kg 0.0275 ng/Kg 0.214 ng/Kg 0.215 ng/Kg 0.0353 ng/Kg 0.396 ng/Kg 0.179 ng/Kg	All soil samples in SDG DX132

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

Sample	Compound	Reported Concentration	Modified Final Concentration
EB-SA6-WB-090711	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.309 pg/L 0.344 pg/L 0.297 pg/L 0.684 pg/L 0.618 pg/L 0.436 pg/L 0.324 pg/L 2.98 pg/L 2.78 pg/L 0.355 pg/L 6.01 pg/L 2.71 pg/L	0.309U pg/L 0.344U pg/L 0.297U pg/L 0.684U pg/L 0.618U pg/L 0.436U pg/L 0.324U pg/L 2.98U pg/L 2.78U pg/L 0.355U pg/L 6.01U pg/L 2.71U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-262-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0147 ng/Kg 0.0569 ng/Kg 0.0458 ng/Kg 0.0320 ng/Kg 0.0625 ng/Kg 0.0451 ng/Kg 0.0762 ng/Kg 0.166 ng/Kg 0.353 ng/Kg 0.0351 ng/Kg 0.343 ng/Kg	0.0147U ng/Kg 0.0569U ng/Kg 0.0458U ng/Kg 0.0320U ng/Kg 0.0625U ng/Kg 0.0451U ng/Kg 0.0762U ng/Kg 0.166U ng/Kg 0.353U ng/Kg 0.0351U ng/Kg 0.343U ng/Kg
SL-264-SA6-SB-0.4-1.4	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.0720 ng/Kg 0.121 ng/Kg 0.0749 ng/Kg 0.117 ng/Kg 0.0869 ng/Kg 0.110 ng/Kg 0.654 ng/Kg 0.105 ng/Kg	0.0720U ng/Kg 0.121U ng/Kg 0.0749U ng/Kg 0.117U ng/Kg 0.0869U ng/Kg 0.110U ng/Kg 0.654U ng/Kg 0.105U ng/Kg
SL-266-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0300 ng/Kg 0.0564 ng/Kg 0.0224 ng/Kg 0.0604 ng/Kg 0.0335 ng/Kg 0.0548 ng/Kg 0.0679 ng/Kg 0.110 ng/Kg 0.380 ng/Kg 1.01 ng/Kg 0.0775 ng/Kg 0.769 ng/Kg	0.0300U ng/Kg 0.0564U ng/Kg 0.0224U ng/Kg 0.0604U ng/Kg 0.0335U ng/Kg 0.0548U ng/Kg 0.0679U ng/Kg 0.110U ng/Kg 0.380U ng/Kg 1.01U ng/Kg 0.0775U ng/Kg 0.769U ng/Kg
DUP14-SA6-QC-090111	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0296 ng/Kg 0.0657 ng/Kg 0.0602 ng/Kg 0.0267 ng/Kg 0.0523 ng/Kg 0.0375 ng/Kg 0.0327 ng/Kg 0.0345 ng/Kg 0.187 ng/Kg 0.297 ng/Kg 0.0361 ng/Kg 0.818 ng/Kg 0.168 ng/Kg	0.0296U ng/Kg 0.0657U ng/Kg 0.0602U ng/Kg 0.0267U ng/Kg 0.0523U ng/Kg 0.0375U ng/Kg 0.0327U ng/Kg 0.0345U ng/Kg 0.187U ng/Kg 0.297U ng/Kg 0.0361U ng/Kg 0.818U ng/Kg 0.168U ng/Kg
SL-204-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.208 ng/Kg 0.157 ng/Kg 0.114 ng/Kg 0.125 ng/Kg 0.0670 ng/Kg 0.0649 ng/Kg 0.0860 ng/Kg 0.299 ng/Kg 0.704 ng/Kg 0.0812 ng/Kg 0.535 ng/Kg	0.208U ng/Kg 0.157U ng/Kg 0.114U ng/Kg 0.125U ng/Kg 0.0670U ng/Kg 0.0649U ng/Kg 0.0860U ng/Kg 0.299U ng/Kg 0.704U ng/Kg 0.0812U ng/Kg 0.535U ng/Kg
SL-261-SA6-SB-1.5-2.5	2,3,4,6,7,8-HxCDF	0.296 ng/Kg	0.296U ng/Kg



Sample	Compound	Reported Concentration	Modified Final Concentration
SL-261-SA6-SB-9.0-10.0	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.185 ng/Kg 0.165 ng/Kg 0.245 ng/Kg 0.334 ng/Kg 0.0780 ng/Kg 0.621 ng/Kg 0.251 ng/Kg	0.185U ng/Kg 0.165U ng/Kg 0.245U ng/Kg 0.334U ng/Kg 0.0780U ng/Kg 0.621U ng/Kg 0.251U ng/Kg
SL-263-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.163 ng/Kg 0.135 ng/Kg 0.106 ng/Kg 0.0906 ng/Kg 0.0493 ng/Kg 0.0762 ng/Kg 0.101 ng/Kg 0.230 ng/Kg 0.363 ng/Kg 0.0567 ng/Kg 1.37 ng/Kg 0.258 ng/Kg	0.163U ng/Kg 0.135U ng/Kg 0.106U ng/Kg 0.0906U ng/Kg 0.0493U ng/Kg 0.0762U ng/Kg 0.101U ng/Kg 0.230U ng/Kg 0.363U ng/Kg 0.0567U ng/Kg 1.37U ng/Kg 0.258U ng/Kg
SL-263-SA6-SB-9.0-10.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0175 ng/Kg 0.0485 ng/Kg 0.0565 ng/Kg 0.0287 ng/Kg 0.0616 ng/Kg 0.0205 ng/Kg 0.0196 ng/Kg 0.0262 ng/Kg 0.196 ng/Kg 0.250 ng/Kg 0.0360 ng/Kg 0.522 ng/Kg 0.205 ng/Kg	0.0175U ng/Kg 0.0485U ng/Kg 0.0565U ng/Kg 0.0287U ng/Kg 0.0616U ng/Kg 0.0205U ng/Kg 0.0196U ng/Kg 0.0262U ng/Kg 0.196U ng/Kg 0.250U ng/Kg 0.0360U ng/Kg 0.522U ng/Kg 0.205U ng/Kg
SL-311-SA6-SB-2.0-3.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0742 ng/Kg 0.178 ng/Kg 0.0246 ng/Kg 0.147 ng/Kg 0.131 ng/Kg 0.118 ng/Kg 0.0717 ng/Kg 0.666 ng/Kg 0.0913 ng/Kg 0.786 ng/Kg	0.0742U ng/Kg 0.178U ng/Kg 0.0246U ng/Kg 0.147U ng/Kg 0.131U ng/Kg 0.118U ng/Kg 0.0717U ng/Kg 0.666U ng/Kg 0.0913U ng/Kg 0.786U ng/Kg
SL-205-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.206 ng/Kg 0.0162 ng/Kg 0.148 ng/Kg 0.113 ng/Kg 0.0869 ng/Kg 0.0407 ng/Kg 0.0520 ng/Kg 0.0328 ng/Kg 0.447 ng/Kg 0.991 ng/Kg 0.0831 ng/Kg	0.206U ng/Kg 0.0162U ng/Kg 0.148U ng/Kg 0.113U ng/Kg 0.0869U ng/Kg 0.0407U ng/Kg 0.0520U ng/Kg 0.0328U ng/Kg 0.447U ng/Kg 0.991U ng/Kg 0.0831U ng/Kg

Sample EB-SA6-WB-090711 was identified as an equipment blank. No polychlorinated dioxin/dibenzofuran contaminants were found with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
EB-SA6-WB-090711	9/7/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.309 pg/L 0.344 pg/L 0.297 pg/L 0.684 pg/L 0.618 pg/L 0.436 pg/L 0.324 pg/L 2.98 pg/L 2.78 pg/L 0.355 pg/L 6.01 pg/L 2.71 pg/L	SL-205-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0

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

## VI. Matrix Spike/Matrix Spike Duplicates

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

## VII. Laboratory Control Samples (LCS)

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

## VIII. Regional Quality Assurance and Quality Control

Not applicable.

## IX. Internal Standards

All internal standard recoveries were within QC limits.

## X. Target Compound Identifications

All target compound identifications were within validation criteria.

## XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG DX132	All compounds reported below the RL.	J (all detects)	A

## XII. System Performance

The system performance was acceptable.

## XIII. Overall Assessment of Data

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

## XIV. Field Duplicates

Samples SL-262-SA6-SB-4.0-5.0 and DUP14-SA6-QC-090111 were identified as field duplicates. No polychlorinated dioxins/dibenzofurans were detected in any of the samples with the following exceptions:

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
2,3,7,8-TCDF	1.09U	0.0186	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,7,8-PeCDF	0.0147	0.0296	67 (≤50)	J (all detects)	A
2,3,4,7,8-PeCDF	0.0569	0.0657	14 (≤50)	-	-
1,2,3,4,7,8-HxCDF	0.0458	0.0602	27 (≤50)	-	-
1,2,3,6,7,8-HxCDF	0.0320	0.0267	18 (≤50)	-	-
2,3,4,6,7,8-HxCDF	0.0625	0.0523	18 (≤50)	-	-
1,2,3,6,7,8-HxCDD	0.0451	0.0375	18 (≤50)	-	-
1,2,3,7,8,9-HxCDD	0.0762	0.0327	80 (≤50)	J (all detects)	A
1,2,3,7,8,9-HxCDF	5.44U	0.0345	200 (≤50)	J (all detects) UJ (all non-detects)	A
1,2,3,4,6,7,8-HpCDF	0.166	0.187	12 (≤50)	-	-
1,2,3,4,6,7,8-HpCDD	0.353	0.297	17 (≤50)	-	-

Compound	Concentration (ng/Kg)		RPD (Limits)	Flags	A or P
	SL-262-SA6-SB-4.0-5.0	DUP14-SA6-QC-090111			
1,2,3,4,7,8,9-HpCDF	0.0351	0.0361	3 (≤50)	-	-
OCDD	2.08	0.818	87 (≤50)	J (all detects)	A
OCDF	0.343	0.168	68 (≤50)	J (all detects)	A

**Santa Susana Field Laboratory**  
**Dioxins/Dibenzofurans - Data Qualification Summary - SDG DX132**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
DX132	SL-258-SA6-SB-0.0-0.83 SL-262-SA6-SB-4.0-5.0 SL-264-SA6-SB-0.4-1.4 SL-266-SA6-SB-4.0-5.0 DUP14-SA6-QC-090111 SL-204-SA6-SB-4.0-5.0 SL-261-SA6-SB-1.5-2.5 SL-261-SA6-SB-9.0-10.0 SL-263-SA6-SB-4.0-5.0 SL-263-SA6-SB-9.0-10.0 SL-205-SA6-SB-4.0-5.0 SL-311-SA6-SB-2.0-3.0 EB-SA6-WB-090711	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)
DX132	SL-262-SA6-SB-4.0-5.0 DUP14-SA6-QC-090111	2,3,7,8-TCDF  1,2,3,7,8,9-HxCDF	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Field duplicates (RPD) (FD)
DX132	SL-262-SA6-SB-4.0-5.0 DUP14-SA6-QC-090111	1,2,3,7,8-PeCDF 1,2,3,7,8,9-HxCDD OCDD OCDF	J (all detects) J (all detects) J (all detects) J (all detects)	A	Field duplicates (RPD) (FD)

**Santa Susana Field Laboratory**  
**Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG DX132**

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX132	EB-SA6-WB-090711	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.309U pg/L 0.344U pg/L 0.297U pg/L 0.684U pg/L 0.618U pg/L 0.436U pg/L 0.324U pg/L 2.98U pg/L 2.78U pg/L 0.355U pg/L 6.01U pg/L 2.71U pg/L	A	B
DX132	SL-262-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0147U ng/Kg 0.0569U ng/Kg 0.0458U ng/Kg 0.0320U ng/Kg 0.0625U ng/Kg 0.0451U ng/Kg 0.0762U ng/Kg 0.166U ng/Kg 0.353U ng/Kg 0.0351U ng/Kg 0.343U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX132	SL-264-SA6-SB-0.4-1.4	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF	0.0720U ng/Kg 0.121U ng/Kg 0.0749U ng/Kg 0.117U ng/Kg 0.0869U ng/Kg 0.110U ng/Kg 0.654U ng/Kg 0.105U ng/Kg	A	B
DX132	SL-266-SA6-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0300U ng/Kg 0.0564U ng/Kg 0.0224U ng/Kg 0.0604U ng/Kg 0.0335U ng/Kg 0.0548U ng/Kg 0.0679U ng/Kg 0.110U ng/Kg 0.380U ng/Kg 1.01U ng/Kg 0.0775U ng/Kg 0.769U ng/Kg	A	B
DX132	DUP14-SA6-QC-090111	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0296U ng/Kg 0.0657U ng/Kg 0.0602U ng/Kg 0.0267U ng/Kg 0.0523U ng/Kg 0.0375U ng/Kg 0.0327U ng/Kg 0.0345U ng/Kg 0.187U ng/Kg 0.297U ng/Kg 0.0361U ng/Kg 0.818U ng/Kg 0.168U ng/Kg	A	B
DX132	SL-204-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.208U ng/Kg 0.157U ng/Kg 0.114U ng/Kg 0.125U ng/Kg 0.0670U ng/Kg 0.0649U ng/Kg 0.0860U ng/Kg 0.299U ng/Kg 0.704U ng/Kg 0.0812U ng/Kg 0.535U ng/Kg	A	B
DX132	SL-261-SA6-SB-1.5-2.5	2,3,4,6,7,8-HxCDF	0.296U ng/Kg	A	B
DX132	SL-261-SA6-SB-9.0-10.0	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.185U ng/Kg 0.165U ng/Kg 0.245U ng/Kg 0.334U ng/Kg 0.0780U ng/Kg 0.621U ng/Kg 0.251U ng/Kg	A	B

SDG	Sample	Compound	Modified Final Concentration	A or P	Code
DX132	SL-263-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.163U ng/Kg 0.135U ng/Kg 0.106U ng/Kg 0.0906U ng/Kg 0.0493U ng/Kg 0.0762U ng/Kg 0.101U ng/Kg 0.230U ng/Kg 0.363U ng/Kg 0.0567U ng/Kg 1.37U ng/Kg 0.258U ng/Kg	A	B
DX132	SL-263-SA6-SB-9.0-10.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0175U ng/Kg 0.0485U ng/Kg 0.0565U ng/Kg 0.0287U ng/Kg 0.0616U ng/Kg 0.0205U ng/Kg 0.0196U ng/Kg 0.0262U ng/Kg 0.196U ng/Kg 0.250U ng/Kg 0.0360U ng/Kg 0.522U ng/Kg 0.205U ng/Kg	A	B
DX132	SL-311-SA6-SB-2.0-3.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0742U ng/Kg 0.178U ng/Kg 0.0246U ng/Kg 0.147U ng/Kg 0.131U ng/Kg 0.118U ng/Kg 0.0717U ng/Kg 0.666U ng/Kg 0.0913U ng/Kg 0.786U ng/Kg	A	B
DX132	SL-205-SA6-SB-4.0-5.0	2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF	0.206U ng/Kg 0.0162U ng/Kg 0.148U ng/Kg 0.113U ng/Kg 0.0869U ng/Kg 0.0407U ng/Kg 0.0520U ng/Kg 0.0328U ng/Kg 0.447U ng/Kg 0.991U ng/Kg 0.0831U ng/Kg	A	B

**Santa Susana Field Laboratory**  
**Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG DX132**

No Sample Data Qualified in this SDG

LDC #: 26850121

## VALIDATION COMPLETENESS WORKSHEET

SDG #: DX132

Level IV

Laboratory: Lancaster Laboratories

Date: 12/27/11

Page: 1 of 1

Reviewer: *EF*2nd Reviewer: *EF*

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	$\Delta$	Sampling dates: 9/1 - 9/7/11
II.	HRGC/HRMS Instrument performance check	$\Delta$	
III.	Initial calibration	$\Delta$	% PSD $\leq 20/35$
IV.	Routine calibration/TCV	A	QC limits
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	A	
VII.	Laboratory control samples	A	LC9
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	$\Delta$	QC limits
X.	Target compound identifications	$\Delta$	
XI.	Compound quantitation and CRQLs	A	
XII.	System performance	$\Delta$	
XIII.	Overall assessment of data	$\Delta$	
XIV.	Field duplicates	SW	D = 2 + 5
XV.	Field blanks	SW	EB = 13

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

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

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

*soil + water*

1	7	SL-258-SA6-SB-0.0-0.83	11	SL-205-SA6-SB-4.0-5.0	21	Blank 256001	31	
2		SL-262-SA6-SB-4.0-5.0	12	SL-311-SA6-SB-2.0-3.0	22	Blank 257002	32	
3		SL-264-SA6-SB-0.4-1.4	13	EB-SA6-WB-090711 W	23		33	
4		SL-266-SA6-SB-4.0-5.0	14	SL-262-SA6-SB-4.0-5.0MS	24		34	
5		DUP14-SA6-QC-090111	15	SL-262-SA6-SB-4.0-5.0MSD	25		35	
6		SL-204-SA6-SB-4.0-5.0	16		26		36	
7		SL-261-SA6-SB-1.5-2.5	17		27		37	
8		SL-261-SA6-SB-9.0-10.0	18		28		38	
9		SL-263-SA6-SB-4.0-5.0	19		29		39	
10		SL-263-SA6-SB-9.0-10.0	20		30		40	

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



**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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>II. GC/MS Instrument performance check</b>				
Was PFK exact mass 380.9760 verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the retention time windows established for all homologues?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomers $\leq 25\%$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the static resolving power at least 10,000 (10% valley definition)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the mass resolution adequately check with PFK?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the presence of 1,2,8,9-TCDD and 1,3,4,6,8-PeCDF verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>III. Initial calibration</b>				
Was the initial calibration performed at 5 concentration levels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) $\leq 20\%$ for unlabeled compounds and $< 35\%$ for labeled compounds?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did all calibration standards meet the Ion Abundance Ratio criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was the signal to noise ratio for each target compound $\geq 2.5$ and for each recovery and internal standard $> 10$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>IV. Continuing calibration</b>				
Was a routine calibration performed at the beginning and end of each 12 hour period?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the concentrations for the unlabeled compounds and labeled compounds within the QC limits (Method 1613B, Table 6)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did all routine calibration standards meet the Ion Abundance Ratio criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>V. Blanks</b>				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank performed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>VII. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Validation Area	Yes	No	NA	Findings/Comments
VIII. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?			<input checked="" type="checkbox"/>	
IX. Internal standards				
Were internal standard recoveries within the <del>25-150%</del> <sup>ac limit</sup> criteria?	<input checked="" type="checkbox"/>			
Was the minimum S/N ratio of all internal standard peaks $\geq 10$ ?	<input checked="" type="checkbox"/>			
X. Target compound identification				
For 2,3,7,8 substituted congeners with associated labeled standards, were the retention times of the two quantitation peaks within $\pm 1$ to 3 sec. of the RT of the labeled standard?	<input checked="" type="checkbox"/>			
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?	<input checked="" type="checkbox"/>			
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?	<input checked="" type="checkbox"/>			
Did compound spectra contain all characteristic ions listed in the table attached?	<input checked="" type="checkbox"/>			
Was the Ion Abundance Ratio for the two quantitation ions within criteria?	<input checked="" type="checkbox"/>			
Was the signal to noise ratio for each target compound and labeled standard $\geq 2.5$ ?	<input checked="" type="checkbox"/>			
Does the maximum intensity of each specified characteristic ion coincide within $\pm 2$ seconds (includes labeled standards)?	<input checked="" type="checkbox"/>			
For PCDF identification, was any signal ( $S/N \geq 2.5$ , at $\pm$ seconds RT) detected in the corresponding PCDF channel?		<input checked="" type="checkbox"/>		
Was an acceptable lock mass recorded and monitored?	<input checked="" type="checkbox"/>			
XI. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>			
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>			
XII. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>			
XIV. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input checked="" type="checkbox"/>			
Target compounds were detected in the field duplicates.	<input checked="" type="checkbox"/>			
XV. Field blanks				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>			
Target compounds were detected in the field blanks.	<input checked="" type="checkbox"/>			

VALIDATION FINDINGS WORKSHEET

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

A. 2,3,7,8-TCDD	F. 1,2,3,4,6,7,8-HpCDD	K. 1,2,3,4,7,8-HxCDF	P. 1,2,3,4,7,8,9-HpCDF	U. Total HpCDD
B. 1,2,3,7,8-PeCDD	G. OCDD	L. 1,2,3,6,7,8-HxCDF	Q. OCDF	V. Total TCDF
C. 1,2,3,4,7,8-HxCDD	H. 2,3,7,8-TCDF	M. 2,3,4,6,7,8-HxCDF	R. Total TCDD	W. Total PeCDF
D. 1,2,3,6,7,8-HxCDD	I. 1,2,3,7,8-PeCDF	N. 1,2,3,7,8,9-HxCDF	S. Total PeCDD	X. Total HxCDF
E. 1,2,3,7,8,9-HxCDD	J. 2,3,4,7,8-PeCDF	O. 1,2,3,4,6,7,8-HpCDF	T. Total HxCDD	Y. Total HpCDF

Notes:

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: 9/13/11 Blank analysis date: 9/14/11 Associated samples: ALL WATER

Conc. units: pg/L

Compound		Blank ID	Sample Identification				
		BLK256001	5X	13			
A		0.680*	3.4				
I		0.426*	2.13	0.309*U			
J		0.637	3.185	0.344*U			
K		0.529*	2.645	0.297*U			
M		0.833*	4.165	0.684*U			
C		0.441*	2.205	0.618*U			
D		0.617*	3.085				
E		0.652	3.26	0.436*U			
N		0.522	2.61	0.324*U			
O		2.13	10.65	2.98*U			
F		2.87	14.35	2.78U			
P		0.770*	3.85	0.355*U			
G		4.54	22.7	6.01*U			
Q		1.21*	6.05	2.74U			

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
All contaminants within five times the method blank concentration were qualified as not detected, "U".

# VALIDATION FINDINGS WORKSHEET

## Blanks

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

**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: 9/15/11 Blank analysis date: 9/16/11

Associated samples: ALL SOILS

Conc. units: ng/kg

Compound		Blank ID	Sample Identification								
			5X	1	2	3	4	5	6	7	8
		BLK257002									
I		0.0181*	0.0905		0.0147*U	0.0720*U	0.0300*U	0.0296*U			
J		0.0560*	0.28		0.0569U	0.121U	0.0564*U	0.0657*U	0.208U		
B		0.0158	0.079			0.0749*U	0.0224*U				
K		0.0509	0.2545		0.0458*U	0.117U	0.0604U	0.0602U	0.157*U		
L		0.0471	0.2355		0.0320U	0.0869U	0.0335*U	0.0267U	0.114*U		0.185U
M		0.0795*	0.3975		0.0625*U	0.110*U	0.0548U	0.0523*U	0.125U	0.296U	0.165U
D		0.0140	0.07		0.0451*U		0.0679*U	0.0375*U	0.0670*U		
E		0.0192*	0.096		0.0762*U			0.0327*U	0.0649U		
N		0.0275*	0.1375				0.110*U	0.0345U	0.0860U		
O		0.214	1.07		0.166U	0.654U	0.380U	0.187U	0.299U		0.245U
F		0.215	1.075		0.353U		1.01U	0.297U	0.704U		0.334U
P		0.0353*	0.1765		0.0351*U	0.105*U	0.0775*U	0.0361U	0.0812*U	-0.184U	0.0780U
G		0.396	1.98					0.818U			0.621U
Q		0.179	0.895		0.343U		0.769U	0.168U	0.535U		0.251U

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:

All contaminants within five times the method blank concentration were qualified as not detected, "U".

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?

Y N N/A

Was the method blank contaminated?

Blank extraction date: 9/15/11 Blank analysis date: 9/16/11

Associated samples: ALL SOILS

Conc. units: ng/kg

Compound	Blank ID	Sample Identification							
		5X	9	10	12	11			
I	BLK257002	0.0905		0.0175*	0.0742*				
J	0.0181*	0.28	0.163	0.0485	0.178*	0.206*			
B	0.0560*	0.079			0.0246	0.0162*			
K	0.0158	0.2545	0.135	0.0565	0.147	0.148			
L	0.0509	0.2355	0.106	0.0287*	0.131	0.113*			
M	0.0471	0.3975	0.0906	0.0616*	0.118	0.0869			
D	0.0795*	0.07	0.0493*	0.0205*		0.0407			
E	0.0140	0.096	0.0762*	0.0196*		0.0520			
N	0.0192*	0.1375	0.101	0.0262	0.0717*	0.0328*			
O	0.0275*	1.07	0.230*	0.196	0.666	0.447			
F	0.214	1.075	0.363	0.250		0.991			
P	0.215	0.1765	0.0567	0.0360*	0.0913	0.0831*			
G	0.0353*	1.98	1.37	0.522					
Q	0.396	0.895	0.258	0.205	0.786				
	0.179								

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
All contaminants within five times the method blank concentration were qualified as not detected, "U".

## VALIDATION FINDINGS WORKSHEET

## Field Blank

Page: 1 of 1

Reviewer: PJ2nd Reviewer: CA

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

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

Y/N N/A

Were field blank identified in this SDG?

Y/N N/A

Were target compounds detected in the field blank?

Blank unit: pg/L Associated sample unit: ng/Kg

Sampling date: 09/07/11

\*EMPC

Associated samples: 11, 12 &gt;5X

Compound		Blank ID	Sample Identification				
		13	5X				
I		0.309*	1.545				
J		0.344*	1.72				
K		0.297*	1.485				
M		0.684*	3.42				
C		0.618*	3.09				
E		0.438*	2.18				
N		0.324*	1.62				
O		2.98*	14.9				
F		2.78	13.9				
P		0.355*	1.775				
G		6.01*	30.05				
Q		2.71	13.55				

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC#: 26850I21**VALIDATION FINDINGS WORKSHEET**  
**Field Duplicates**Page: 1 of 1Reviewer: AF2nd Reviewer: AF**METHOD:** 1613BY N NA Were field duplicate pairs identified in this SDG?Y N NA Were target analytes detected in the field duplicate pairs?

\* empe

(fd)

Compound	Concentration (ng/kg)		RPD	
	2	5		
H	0.0164U	0.0186	200	J/W/A
I	0.0147*	0.0296*	67	J/A det
J	0.0569*	0.0657*	14	
K	0.0458*	0.0602	27	
L	0.0320	0.0267	18	
M	0.0625*	0.0523*	18	
D	0.0451*	0.0375*	18	
E	0.0762*	0.0327*	80	J/A det
N	0.0112U	0.0345	200	J/W/A
O	0.166	0.187	12	
F	0.353	0.297	17	
P	0.0351*	0.0361	3	
G	2.08	0.818	87	J/A det
Q	0.343	0.168	68	↓

V:\FIELD DUPLICATES\templates\26850I21.wpd



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:

$$RRF = (A_x)(C_{is}) / (A_{is})(C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (S/X)$$

 $A_x$  = Area of compound, $C_x$  = Concentration of compound, $S$  = Standard deviation of the RRFs,  $X$  = Mean of the RRFs $A_{is}$  = Area of associated internal standard $C_{is}$  = Concentration of internal standard $X$  = Mean of the RRFs

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (initial)	Recalculated Average RRF (initial)	Reported RRF (CS std)	Recalculated RRF (CS std)	Reported %RSD	Recalculated %RSD
1	ICAL	8/01/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	0.864	0.864	0.890	0.890	3.68	3.68
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	1.017	1.017	1.003	1.003	2.98	2.98
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	0.896	0.896	0.854	0.854	4.82	4.82
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	0.964	0.964	0.946	0.946	2.49	2.49
			OCDF ( <sup>13</sup> C-OCDF)	0.911	0.911	0.880	0.880	3.43	3.43
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 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  
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:

$$RRF = (A_s/C_s)/(A_x/C_x)$$

average RRF = sum of the RRFs/number of standards

$$\%RSD = 100 * (SX)$$

 $A_s$  = Area of compound, $C_s$  = Concentration of compound, $S$  = Standard deviation of the RRFs,  $X$  = Mean of the RRFs $A_x$  = Area of associated internal standard $C_x$  = 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		Reported		Recalculated	
				Average RRF (initial)		Average RRF (initial)		RRF (CS3 std)		RRF (CS3 std)		%RSD		%RSD	
1	KAL	6/3/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	1.017		1.017		1.033		1.033		4.59		4.59	
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	1.186		1.186		1.186		1.186		5.56		5.56	
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	0.995		0.995		1.001		1.001		3.43		3.43	
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	1.017		1.017		1.101		1.101		4.02		4.02	
			OCDF ( <sup>13</sup> C-OCDF)	0.945		0.945		0.974		0.974		3.54		3.54	
2	ICAL	6/24/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	1.022		1.022		1.028		1.028		7.77		7.77	
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	1.133		1.133		1.142		1.142		3.52		3.52	
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	0.971		0.971		1.018		1.018		4.32		4.32	
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	1.053		1.053		1.087		1.087		4.49		4.49	
			OCDF ( <sup>13</sup> C-OCDF)	0.950		0.950		1.001		1.001		5.01		5.01	
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 compound identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$

$$\text{RRF} = (A_x)(C_s) / (A_s)(C_x)$$

Where: ave. RRF = initial calibration average RRF  
RRF = continuing calibration RRF

$A_x$  = Area of compound,  
 $C_x$  = Concentration of compound,  
 $A_s$  = Area of associated internal standard  
 $C_s$  = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported		Recalculated		Reported	Recalculated	
					RRF (CC)		RRF (CC)			%R	%R
1	CV 17:36	9/14/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)	10.0	9.530		9.530		95		95
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)	10.0	10.270		10.270		103		103
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)	50.0	50.240		50.240		100		100
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)	50.0	49.050		49.050		98		98
			OCDF ( <sup>13</sup> C-OCDF)	100.0	99.910		99.910		100		100
2	CV 18:07	9/16/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)		10.290		10.290		103		103
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)		10.180		10.180		102		102
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)		53.360		53.360		107		107
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)		52.870		52.870		106		106
			OCDF ( <sup>13</sup> C-OCDF)		106.910		106.910		107		107
3	CV 4:38	9/17/11	2,3,7,8-TCDF ( <sup>13</sup> C-2,3,7,8-TCDF)		10.330		10.330		103		103
			2,3,7,8-TCDD ( <sup>13</sup> C-2,3,7,8-TCDD)		10.170		10.170		102		102
			1,2,3,6,7,8-HxCDD ( <sup>13</sup> C-1,2,3,6,7,8-HxCDD)		53.730		53.730		107		107
			1,2,3,4,6,7,8-HpCDD ( <sup>13</sup> C-1,2,4,6,7,8-HpCDD)		51.590		51.590		103		103
			OCDF ( <sup>13</sup> C-OCDF)		105.650		105.650		106		106

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





## VALIDATION FINDINGS WORKSHEET

### Sample Calculation Verification

**METHOD:** HRGC/HRMS Dioxins/Dibenzofurans (EPA Method 1613B)

Y	N	N/A
Y	N	N/A

Were all reported results recalculated and verified for all level IV samples?

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$$

$A_x$  = Area of the characteristic ion (EICP) for the compound to be measured

$A_{is}$  = Area of the characteristic ion (EICP) for the specific internal standard

$I_s$  = Amount of internal standard added in nanograms (ng)

$V_0$  = Volume or weight of sample extract in milliliters (ml) or grams (g).

RRF = Relative Response Factor (average) from the initial calibration

Df = Dilution Factor.

%S = Percent solids, applicable to soil and solid matrices only.

Example:

Sample I.D. #1 OCDD

$$\text{Conc.} = \frac{346.485}{(391163)(4000)(100421)(0.926)(10.0)(0.983)} + 266245$$

572 ng/kg

[illegible]

# **SAMPLE DELIVERY GROUP**

**DX133**

## **Attachment I**

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



## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
09-Sep-2011	SL-001-SA6-SB-0.0-1.0	6401600	N	METHOD	1613B	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MS	6401601	MS	METHOD	1613B	III
09-Sep-2011	SL-001-SA6-SB-0.0-1.0MSD	6401602	MSD	METHOD	1613B	III
09-Sep-2011	DUP15-SA6-QC-090911	6401607	FD	METHOD	1613B	III
09-Sep-2011	SL-217-SA6-SB-4.0-5.0	6401605	N	METHOD	1613B	III
09-Sep-2011	SL-217-SA6-SB-7.5-8.5	6401606	N	METHOD	1613B	III
09-Sep-2011	SL-210-SA6-SB-4.0-5.0	6401603	N	METHOD	1613B	III
09-Sep-2011	SL-210-SA6-SB-9.0-10.0	6401604	N	METHOD	1613B	III
12-Sep-2011	SL-051-SA6-SB-3.5-4.5	6404358	N	METHOD	1613B	III
12-Sep-2011	SL-235-SA6-SB-4.0-5.0	6404361	N	METHOD	1613B	III
12-Sep-2011	SL-050-SA6-SB-1.0-2.0	6404357	N	METHOD	1613B	III
12-Sep-2011	SL-269-SA6-SB-1.5-2.5	6404360	N	METHOD	1613B	III
12-Sep-2011	SL-055-SA6-SB-2.0-3.0	6404359	N	METHOD	1613B	III
13-Sep-2011	SL-040-SA7-SS-0.0-0.5	6404534	N	METHOD	1613B	III
13-Sep-2011	SL-041-SA7-SS-0.0-0.5	6404535	N	METHOD	1613B	III
13-Sep-2011	SL-071-SA7-SS-0.0-0.5	6404537	N	METHOD	1613B	III
13-Sep-2011	SL-037-SA7-SS-0.0-0.5	6404533	N	METHOD	1613B	III
13-Sep-2011	SL-070-SA7-SS-0.0-0.5	6404536	N	METHOD	1613B	III
13-Sep-2011	SL-034-SA7-SS-0.0-0.5	6404531	N	METHOD	1613B	III
13-Sep-2011	SL-035-SA7-SS-0.0-0.5	6404532	N	METHOD	1613B	III
13-Sep-2011	SL-073-SA7-SS-0.0-0.5	6404538	N	METHOD	1613B	III
13-Sep-2011	SL-030-SA7-SS-0.0-0.5	6404530	N	METHOD	1613B	III

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

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: DUP15-SA6-QC-090911

Collected: 9/9/2011 10:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.61	JB	0.0352	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.241	JBQ	0.0505	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0836	JBQ	0.0510	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.300	JQ	0.0399	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.355	J	0.0502	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.155	J	0.0368	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.267	JBQ	0.0473	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0685	JQ	0.0342	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.252	JQ	0.0496	MDL	5.25	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDF	0.338	J	0.0358	MDL	5.25	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.157	JBQ	0.0395	MDL	5.25	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.310	JB	0.0365	MDL	5.25	PQL	ng/Kg	J	Z, FD
2,3,7,8-TCDD	0.0868	JQ	0.0594	MDL	1.05	PQL	ng/Kg	J	Z, FD
OCDF	5.30	JB	0.0442	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-001-SA6-SB-0.0-1.0

Collected: 9/9/2011 10:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.49	JB	0.0350	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.176	JBQ	0.0572	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.107	JBQ	0.0515	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.269	J	0.0425	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.347	JQ	0.0501	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0932	JQ	0.0386	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.202	JBQ	0.0514	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0706	JQ	0.0485	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0486	U	0.0486	MDL	5.20	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0490	J	0.0383	MDL	5.20	PQL	ng/Kg	J	Z, FD
2,3,4,6,7,8-HXCDF	0.161	JBQ	0.0375	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.170	JB	0.0396	MDL	5.20	PQL	ng/Kg	UJ	B, FD
2,3,7,8-TCDD	0.0825	U	0.0825	MDL	1.04	PQL	ng/Kg	UJ	FD
OCDD	219	B	0.0856	MDL	10.4	PQL	ng/Kg	J	Q, Q
OCDF	4.62	JB	0.0546	MDL	10.4	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-030-SA7-SS-0.0-0.5

Collected: 9/13/2011 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
1,2,3,4,7,8,9-HPCDF	0.452	JB	0.0802	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.01	JB	0.113	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.14	J	0.0710	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	3.08	J	0.110	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.604	J	0.0682	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.80	JB	0.0987	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.346	J	0.0705	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.319	J	0.0798	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.494	J	0.0715	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.600	JB	0.0606	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.05	JB	0.0658	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.386	JQ	0.123	MDL	1.00	PQL	ng/Kg	J	Z

Sample ID: SL-034-SA7-SS-0.0-0.5

Collected: 9/13/2011 12:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.804	JC	0.0637	MDL	0.994	PQL	ng/Kg	J	Z

Sample ID: SL-034-SA7-SS-0.0-0.5

Collected: 9/13/2011 12:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.36	JB	0.0742	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.45	JB	0.0908	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.39	J	0.0673	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	4.58	J	0.0908	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.834	J	0.0680	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.95	JB	0.0671	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.775	J	0.0844	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.686	J	0.0691	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.18	JB	0.0615	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.953	JB	0.0651	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.142	J	0.0703	MDL	0.994	PQL	ng/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: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-035-SA7-SS-0.0-0.5

Collected: 9/13/2011 2:05:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.937	JC	0.0563	MDL	0.993	PQL	ng/Kg	J	Z

Sample ID: SL-035-SA7-SS-0.0-0.5

Collected: 9/13/2011 2:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.15	JB	0.0826	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.20	JB	0.0964	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.51	J	0.0734	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	3.30	J	0.0986	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.725	J	0.0710	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.29	JB	0.0821	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.226	JQ	0.0760	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.715	JQ	0.0914	MDL	4.97	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.83	J	0.0861	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.968	JB	0.0716	MDL	4.97	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.980	JB	0.0738	MDL	4.97	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.388	J	0.0740	MDL	0.993	PQL	ng/Kg	J	Z

Sample ID: SL-037-SA7-SS-0.0-0.5

Collected: 9/13/2011 10:15:00

Analysis Type: REA

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,7,8-TCDF	0.976	JC	0.0823	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-037-SA7-SS-0.0-0.5

Collected: 9/13/2011 10:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.968	JB	0.0745	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.696	JB	0.0706	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.77	J	0.0844	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	1.42	J	0.0733	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.992	J	0.0803	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.12	JB	0.0619	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.337	JQ	0.0655	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.476	J	0.0688	MDL	5.03	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.806	JQ	0.0943	MDL	5.03	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-037-SA7-SS-0.0-0.5

Collected: 9/13/2011 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
2,3,4,6,7,8-HXCDF	0.946	JB	0.0609	MDL	5.03	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	2.48	JB	0.0804	MDL	5.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.140	JQ	0.0687	MDL	1.01	PQL	ng/Kg	J	Z

Sample ID: SL-040-SA7-SS-0.0-0.5

Collected: 9/13/2011 8:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.25	JB	0.0557	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.07	JB	0.0257	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0922	JB	0.0407	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0941	JB	0.0454	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.188	JQ	0.0265	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.207	JQ	0.0458	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.113	J	0.0251	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.177	JBQ	0.0405	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0876	J	0.0312	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.121	JQ	0.0441	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.175	JQ	0.0293	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.164	JB	0.0311	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.277	JB	0.0304	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0973	J	0.0618	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	3.38	JB	0.0507	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-041-SA7-SS-0.0-0.5

Collected: 9/13/2011 9:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.72	JB	0.0301	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.166	JBQ	0.0467	MDL	5.02	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.236	JBQ	0.0679	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.556	J	0.0355	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.595	JQ	0.0687	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.177	JQ	0.0305	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.434	JBQ	0.0624	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0691	JQ	0.0358	MDL	5.02	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.242	JQ	0.0461	MDL	5.02	PQL	ng/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: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** GENCHEM

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-041-SA7-SS-0.0-0.5

Collected: 9/13/2011 9:09:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.166	J	0.0309	MDL	5.02	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.159	JB	0.0308	MDL	5.02	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.240	JB	0.0290	MDL	5.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0719	JQ	0.0601	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.176	JQ	0.0721	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	3.74	JB	0.0512	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-050-SA6-SB-1.0-2.0

Collected: 9/12/2011 10:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.02	JB	0.0596	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.829	JB	0.0276	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.108	JBQ	0.0445	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0972	JBQ	0.0400	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.280	JQ	0.0403	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.292	JQ	0.0410	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.165	JQ	0.0369	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.263	JBQ	0.0400	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.168	J	0.0385	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.216	JQ	0.0423	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.224	JQ	0.0305	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.157	JBQ	0.0364	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.197	JBQ	0.0303	MDL	5.15	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.112	JQ	0.0637	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.102	J	0.0586	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	2.02	JB	0.0557	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-051-SA6-SB-3.5-4.5

Collected: 9/12/2011 8:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.348	JB	0.0457	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.121	JBQ	0.0175	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0528	JQ	0.0231	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.0653	J	0.0328	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0296	JQ	0.0198	MDL	5.15	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-051-SA6-SB-3.5-4.5

Collected: 9/12/2011 8:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8,9-HXCDD	0.0713	JB	0.0286	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0550	JQ	0.0261	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0700	JQ	0.0424	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0643	JQ	0.0237	MDL	5.15	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0432	JBQ	0.0219	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.113	JB	0.0243	MDL	5.15	PQL	ng/Kg	U	B
OCDD	1.63	JB	0.0309	MDL	10.3	PQL	ng/Kg	U	B
OCDF	0.165	JB	0.0580	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-055-SA6-SB-2.0-3.0

Collected: 9/12/2011 11:40:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.68	JB	0.0749	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.972	JB	0.0329	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0835	JB	0.0601	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.224	JQ	0.0387	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.347	J	0.0491	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.114	JQ	0.0329	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.316	JB	0.0463	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.105	J	0.0464	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0662	JQ	0.0586	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.328	J	0.0324	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.167	JBQ	0.0356	MDL	5.10	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0767	J	0.0754	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	2.37	JB	0.0703	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-070-SA7-SS-0.0-0.5

Collected: 9/13/2011 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
1,2,3,4,7,8,9-HPCDF	0.636	JB	0.0555	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.350	JBQ	0.0737	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	2.14	J	0.0460	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	1.06	J	0.0761	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.500	J	0.0506	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.682	JB	0.0638	MDL	4.90	PQL	ng/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: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-070-SA7-SS-0.0-0.5

Collected: 9/13/2011 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
1,2,3,7,8,9-HXCDF	0.246	J	0.0525	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.334	JQ	0.0588	MDL	4.90	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.46	J	0.0679	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.630	JB	0.0515	MDL	4.90	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.08	JB	0.0609	MDL	4.90	PQL	ng/Kg	J	Z

Sample ID: SL-071-SA7-SS-0.0-0.5

Collected: 9/13/2011 9:26:00

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	3.17	JB	0.0311	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.380	JBQ	0.0544	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.590	JBQ	0.0659	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.376	JQ	0.0476	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.702	JQ	0.0676	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.203	J	0.0398	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.575	JBQ	0.0651	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.163	J	0.0308	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.193	J	0.0566	MDL	5.01	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.157	JQ	0.0305	MDL	5.01	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.241	JBQ	0.0391	MDL	5.01	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.277	JB	0.0340	MDL	5.01	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0843	JQ	0.0674	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	8.44	JB	0.0588	MDL	10.0	PQL	ng/Kg	J	Z

Sample ID: SL-073-SA7-SS-0.0-0.5

Collected: 9/13/2011 2:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.588	JBQ	0.0803	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.64	JB	0.110	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.09	JQ	0.0782	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	4.78	J	0.112	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.724	JQ	0.0641	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	2.45	JBQ	0.114	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.451	JQ	0.0549	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.554	J	0.101	MDL	5.00	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-073-SA7-SS-0.0-0.5

Collected: 9/13/2011 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
1,2,3,7,8-PECDF	0.859	J	0.0668	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.599	JB	0.0708	MDL	5.00	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.03	JB	0.0671	MDL	5.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.316	JQ	0.121	MDL	0.999	PQL	ng/Kg	J	Z

Sample ID: SL-210-SA6-SB-4.0-5.0

Collected: 9/9/2011 3:15:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	5.33	JB	0.0568	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.952	JB	0.0289	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0518	JB	0.0432	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0902	JBQ	0.0449	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.149	JQ	0.0401	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.275	JQ	0.0463	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.118	JQ	0.0345	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.426	JBQ	0.0339	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.359	JQ	0.0308	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0904	JQ	0.0534	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.189	J	0.0266	MDL	5.37	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.145	JBQ	0.0317	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.202	JB	0.0280	MDL	5.37	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.105	J	0.0586	MDL	1.07	PQL	ng/Kg	J	Z
OCDF	3.75	JB	0.0559	MDL	10.7	PQL	ng/Kg	J	Z

Sample ID: SL-210-SA6-SB-9.0-10.0

Collected: 9/9/2011 3:20:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.466	JB	0.0624	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0950	JBQ	0.0252	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0597	JB	0.0450	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0584	JQ	0.0265	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.0461	JQ	0.0445	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0462	JQ	0.0226	MDL	5.50	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.0889	JBQ	0.0298	MDL	5.50	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0884	JQ	0.0244	MDL	5.50	PQL	ng/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: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-210-SA6-SB-9.0-10.0

Collected: 9/9/2011 3:20:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,6,7,8-HXCDF	0.0619	JB	0.0242	MDL	5.50	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0721	JB	0.0295	MDL	5.50	PQL	ng/Kg	U	B
OCDD	1.97	JB	0.0340	MDL	11.0	PQL	ng/Kg	U	B
OCDF	0.283	JBQ	0.0554	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-217-SA6-SB-4.0-5.0

Collected: 9/9/2011 1:41:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.57	JB	0.0362	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.115	JB	0.0580	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.109	JBQ	0.0498	MDL	6.05	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.195	JQ	0.0455	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.602	J	0.0495	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.126	JQ	0.0377	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.584	JBQ	0.0479	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.498	JQ	0.0535	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.165	JQ	0.0593	MDL	6.05	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.193	JQ	0.0383	MDL	6.05	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.191	JBQ	0.0438	MDL	6.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.160	JQ	0.0787	MDL	1.21	PQL	ng/Kg	J	Z
OCDF	4.10	JB	0.0673	MDL	12.1	PQL	ng/Kg	J	Z

Sample ID: SL-217-SA6-SB-7.5-8.5

Collected: 9/9/2011 1:48:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.255	JB	0.0519	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0758	JBQ	0.0186	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0353	JQ	0.0283	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0431	JQ	0.0243	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0796	JBQ	0.0232	MDL	5.46	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0353	JQ	0.0233	MDL	5.46	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0433	JQ	0.0275	MDL	5.46	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0877	JB	0.0268	MDL	5.46	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0927	JQ	0.0556	MDL	1.09	PQL	ng/Kg	J	Z
OCDD	0.568	JB	0.0295	MDL	10.9	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: GENCHEM

Method: 1613B

Matrix: SO

Sample ID: SL-217-SA6-SB-7.5-8.5

Collected: 9/9/2011 1:48:00 PM

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.110	JBQ	0.0566	MDL	10.9	PQL	ng/Kg	U	B

Sample ID: SL-235-SA6-SB-4.0-5.0

Collected: 9/12/2011 9:01:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.324	JB	0.0618	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.147	JB	0.0328	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0793	JQ	0.0341	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	0.0840	JQ	0.0444	MDL	5.41	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.103	JBQ	0.0448	MDL	5.41	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0804	JQ	0.0389	MDL	5.41	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0627	JBQ	0.0352	MDL	5.41	PQL	ng/Kg	U	B
OCDD	0.460	JB	0.0490	MDL	10.8	PQL	ng/Kg	U	B
OCDF	0.208	JB	0.0889	MDL	10.8	PQL	ng/Kg	U	B

Sample ID: SL-269-SA6-SB-1.5-2.5

Collected: 9/12/2011 10:46:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.214	JB	0.0568	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0981	JB	0.0250	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0463	JQ	0.0385	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	0.0432	JBQ	0.0290	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0539	JQ	0.0378	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0488	JB	0.0296	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0565	JBQ	0.0285	MDL	5.09	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0792	JQ	0.0764	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	0.740	JBQ	0.0302	MDL	10.2	PQL	ng/Kg	U	B
OCDF	0.345	JBQ	0.0711	MDL	10.2	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_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: DX133

Laboratory: LL

EDD Filename: DX133\_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: DX133

Laboratory: LL

EDD Filename: DX133\_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

DX133

# Method Blank Outlier Report

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2630B370406	9/22/2011 4:06:00 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 1,2,3,7,8,9-HxCDD 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PECDF OCDD OCDF	0.184 ng/Kg 0.0934 ng/Kg 0.0517 ng/Kg 0.0330 ng/Kg 0.0687 ng/Kg 0.0706 ng/Kg 0.0420 ng/Kg 0.418 ng/Kg 0.129 ng/Kg	DUP15-SA6-QC-090911 SL-001-SA6-SB-0.0-1.0 SL-030-SA7-SS-0.0-0.5 SL-034-SA7-SS-0.0-0.5 SL-035-SA7-SS-0.0-0.5 SL-037-SA7-SS-0.0-0.5 SL-040-SA7-SS-0.0-0.5 SL-041-SA7-SS-0.0-0.5 SL-050-SA6-SB-1.0-2.0 SL-051-SA6-SB-3.5-4.5 SL-055-SA6-SB-2.0-3.0 SL-070-SA7-SS-0.0-0.5 SL-071-SA7-SS-0.0-0.5 SL-073-SA7-SS-0.0-0.5 SL-210-SA6-SB-4.0-5.0 SL-210-SA6-SB-9.0-10.0 SL-217-SA6-SB-4.0-5.0 SL-217-SA6-SB-7.5-8.5 SL-235-SA6-SB-4.0-5.0 SL-269-SA6-SB-1.5-2.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP15-SA6-QC-090911(RES)	1,2,3,4,7,8,9-HPCDF	0.241 ng/Kg	0.241U ng/Kg
DUP15-SA6-QC-090911(RES)	1,2,3,4,7,8-HxCDD	0.0836 ng/Kg	0.0836U ng/Kg
DUP15-SA6-QC-090911(RES)	1,2,3,7,8,9-HxCDD	0.267 ng/Kg	0.267U ng/Kg
DUP15-SA6-QC-090911(RES)	2,3,4,6,7,8-HxCDF	0.157 ng/Kg	0.157U ng/Kg
SL-001-SA6-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.176 ng/Kg	0.176U ng/Kg
SL-001-SA6-SB-0.0-1.0(RES)	1,2,3,4,7,8-HxCDD	0.107 ng/Kg	0.107U ng/Kg
SL-001-SA6-SB-0.0-1.0(RES)	1,2,3,7,8,9-HxCDD	0.202 ng/Kg	0.202U ng/Kg
SL-001-SA6-SB-0.0-1.0(RES)	2,3,4,6,7,8-HxCDF	0.161 ng/Kg	0.161U ng/Kg
SL-001-SA6-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.170 ng/Kg	0.170U ng/Kg
SL-040-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0922 ng/Kg	0.0922U ng/Kg
SL-040-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0941 ng/Kg	0.0941U ng/Kg
SL-040-SA7-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.177 ng/Kg	0.177U ng/Kg
SL-040-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.164 ng/Kg	0.164U ng/Kg
SL-041-SA7-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.166 ng/Kg	0.166U ng/Kg
SL-041-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.159 ng/Kg	0.159U ng/Kg
SL-050-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	0.108U ng/Kg
SL-050-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HxCDD	0.0972 ng/Kg	0.0972U ng/Kg
SL-050-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HxCDD	0.263 ng/Kg	0.263U ng/Kg
SL-050-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HxCDF	0.157 ng/Kg	0.157U ng/Kg
SL-050-SA6-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.197 ng/Kg	0.197U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDD	0.348 ng/Kg	0.348U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	1,2,3,4,6,7,8-HPCDF	0.121 ng/Kg	0.121U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	1,2,3,7,8,9-HxCDD	0.0713 ng/Kg	0.0713U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	2,3,4,6,7,8-HxCDF	0.0432 ng/Kg	0.0432U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	2,3,4,7,8-PECDF	0.113 ng/Kg	0.113U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	OCDD	1.63 ng/Kg	1.63U ng/Kg
SL-051-SA6-SB-3.5-4.5(RES)	OCDF	0.165 ng/Kg	0.165U ng/Kg

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_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-055-SA6-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0835 ng/Kg	0.0835U ng/Kg
SL-055-SA6-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDD	0.316 ng/Kg	0.316U ng/Kg
SL-055-SA6-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.167 ng/Kg	0.167U ng/Kg
SL-071-SA7-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.241 ng/Kg	0.241U ng/Kg
SL-210-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0518 ng/Kg	0.0518U ng/Kg
SL-210-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.0902 ng/Kg	0.0902U ng/Kg
SL-210-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.145 ng/Kg	0.145U ng/Kg
SL-210-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.202 ng/Kg	0.202U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDD	0.466 ng/Kg	0.466U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0950 ng/Kg	0.0950U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HxCDD	0.0597 ng/Kg	0.0597U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDD	0.0889 ng/Kg	0.0889U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0619 ng/Kg	0.0619U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0721 ng/Kg	0.0721U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	OCDD	1.97 ng/Kg	1.97U ng/Kg
SL-210-SA6-SB-9.0-10.0(RES)	OCDF	0.283 ng/Kg	0.283U ng/Kg
SL-217-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.115 ng/Kg	0.115U ng/Kg
SL-217-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HxCDD	0.109 ng/Kg	0.109U ng/Kg
SL-217-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.191 ng/Kg	0.191U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDD	0.255 ng/Kg	0.255U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0758 ng/Kg	0.0758U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	1,2,3,7,8,9-HXCDD	0.0796 ng/Kg	0.0796U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	2,3,4,7,8-PECDF	0.0877 ng/Kg	0.0877U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	OCDD	0.568 ng/Kg	0.568U ng/Kg
SL-217-SA6-SB-7.5-8.5(RES)	OCDF	0.110 ng/Kg	0.110U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.324 ng/Kg	0.324U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.147 ng/Kg	0.147U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.103 ng/Kg	0.103U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0627 ng/Kg	0.0627U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	OCDD	0.460 ng/Kg	0.460U ng/Kg
SL-235-SA6-SB-4.0-5.0(RES)	OCDF	0.208 ng/Kg	0.208U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	1,2,3,4,6,7,8-HPCDD	0.214 ng/Kg	0.214U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	1,2,3,4,6,7,8-HPCDF	0.0981 ng/Kg	0.0981U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	1,2,3,7,8,9-HXCDD	0.0432 ng/Kg	0.0432U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	2,3,4,6,7,8-HXCDF	0.0488 ng/Kg	0.0488U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	2,3,4,7,8-PECDF	0.0565 ng/Kg	0.0565U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	OCDD	0.740 ng/Kg	0.740U ng/Kg
SL-269-SA6-SB-1.5-2.5(RES)	OCDF	0.345 ng/Kg	0.345U ng/Kg

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

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_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-001-SA6-SB-0.0-1.0MS SL-001-SA6-SB-0.0-1.0MSD (SL-001-SA6-SB-0.0-1.0)	OCDD	341	-	40.00-135.00	83 (20.00)	OCDD	J (all detects)

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
MOISTURE	4.0	4.9	20		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-001-SA6-SB-0.0-1.0	DUP15-SA6-QC-090911			
1,2,3,4,6,7,8-HPCDD	14.6	14.9	2	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	1.49	1.61	8	50.00	
1,2,3,4,7,8,9-HPCDF	0.176	0.241	31	50.00	
1,2,3,4,7,8-HxCDD	0.107	0.0836	25	50.00	
1,2,3,4,7,8-HxCDF	0.269	0.300	11	50.00	
1,2,3,6,7,8-HxCDD	0.347	0.355	2	50.00	
1,2,3,6,7,8-HxCDF	0.0932	0.155	50	50.00	
1,2,3,7,8,9-HxCDD	0.202	0.267	28	50.00	
1,2,3,7,8,9-HxCDF	0.0706	0.0685	3	50.00	
2,3,4,6,7,8-HxCDF	0.161	0.157	3	50.00	
OCDD	219	268	20	50.00	
OCDF	4.62	5.30	14	50.00	
1,2,3,7,8-PECDD	5.20 U	0.252	200	50.00	J(all detects) UJ(all non-detects)
1,2,3,7,8-PECDF	0.0490	0.338	149	50.00	
2,3,4,7,8-PECDF	0.170	0.310	58	50.00	
2,3,7,8-TCDD	1.04 U	0.0868	200	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP15-SA6-QC-090911	1,2,3,4,6,7,8-HPCDF	JB	1.61	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.241	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0836	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.300	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.355	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.155	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.267	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0685	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.252	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.338	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.157	5.25	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.310	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0868	1.05	PQL	ng/Kg	
	OCDF	JB	5.30	10.5	PQL	ng/Kg	
SL-001-SA6-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDF	JB	1.49	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.176	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.107	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.269	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.347	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0932	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.202	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0706	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.0490	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.161	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.170	5.20	PQL	ng/Kg	
	OCDF	JB	4.62	10.4	PQL	ng/Kg	
SL-030-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.452	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.01	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.14	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	3.08	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.604	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.80	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.346	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.319	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.494	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.600	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.05	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.386	1.00	PQL	ng/Kg	
SL-034-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.36	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.45	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.39	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	4.58	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.834	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.95	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.775	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.686	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.18	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.953	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.142	0.994	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.804	0.994	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-035-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.15	4.97	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.20	4.97	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	1.51	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	3.30	4.97	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.725	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.29	4.97	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.226	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.715	4.97	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.83	4.97	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.968	4.97	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.980	4.97	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.388	0.993	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.937	0.993	PQL	ng/Kg	
SL-037-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.968	5.03	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.696	5.03	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	2.77	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	1.42	5.03	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.992	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.12	5.03	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.337	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.476	5.03	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.806	5.03	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.946	5.03	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	2.48	5.03	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.140	1.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JC	0.976	1.01	PQL	ng/Kg	
SL-040-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.25	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.07	5.02	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0922	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0941	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.188	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.207	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.113	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.177	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.0876	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.121	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.175	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.164	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.277	5.02	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0973	1.00	PQL	ng/Kg	
	OCDF	JB	3.38	10.0	PQL	ng/Kg	
SL-041-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.72	5.02	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.166	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.236	5.02	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.556	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.595	5.02	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.177	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.434	5.02	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0691	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.242	5.02	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.166	5.02	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.159	5.02	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.240	5.02	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0719	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.176	1.00	PQL	ng/Kg	
	OCDF	JB	3.74	10.0	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-050-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JB	5.02	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.829	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.108	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0972	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.280	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.292	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.165	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.263	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.168	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.216	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.224	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.157	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.197	5.15	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.112	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.102	1.03	PQL	ng/Kg	
	OCDF	JB	2.02	10.3	PQL	ng/Kg	
SL-051-SA6-SB-3.5-4.5	1,2,3,4,6,7,8-HPCDD	JB	0.348	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.121	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0528	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.0653	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0296	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0713	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0550	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0700	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0643	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0432	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.113	5.15	PQL	ng/Kg	
	OCDD	JB	1.63	10.3	PQL	ng/Kg	
	OCDF	JB	0.165	10.3	PQL	ng/Kg	
SL-055-SA6-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JB	3.68	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.972	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0835	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.224	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.347	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.114	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.316	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.105	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0662	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.328	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.167	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0767	1.02	PQL	ng/Kg	
	OCDF	JB	2.37	10.2	PQL	ng/Kg	
SL-070-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	0.636	4.90	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JBQ	0.350	4.90	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	2.14	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	1.06	4.90	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.500	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.682	4.90	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.246	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.334	4.90	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	1.46	4.90	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.630	4.90	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.08	4.90	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-071-SA7-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.17	5.01	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.380	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.590	5.01	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.376	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.702	5.01	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	J	0.203	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.575	5.01	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.163	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.193	5.01	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.157	5.01	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.241	5.01	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.277	5.01	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0843	1.00	PQL	ng/Kg	
	OCDF	JB	8.44	10.0	PQL	ng/Kg	
SL-073-SA7-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JBQ	0.588	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	1.64	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	1.09	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	4.78	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.724	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	2.45	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.451	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.554	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.859	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.599	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.03	5.00	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.316	0.999	PQL	ng/Kg	
SL-210-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	5.33	5.37	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.952	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0518	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0902	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.149	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.275	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.118	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.426	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.359	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0904	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	J	0.189	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.145	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.202	5.37	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.105	1.07	PQL	ng/Kg	
	OCDF	JB	3.75	10.7	PQL	ng/Kg	
SL-210-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	0.466	5.50	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0950	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.0597	5.50	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0584	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0461	5.50	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0462	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0889	5.50	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0884	5.50	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0619	5.50	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0721	5.50	PQL	ng/Kg	
	OCDD	JB	1.97	11.0	PQL	ng/Kg	
	OCDF	JBQ	0.283	11.0	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX133

Laboratory: LL

EDD Filename: DX133\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-217-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	1.57	6.05	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.115	6.05	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.109	6.05	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.195	6.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.602	6.05	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.126	6.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.584	6.05	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.498	6.05	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.165	6.05	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.193	6.05	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.191	6.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.160	1.21	PQL	ng/Kg	
	OCDF	JB	4.10	12.1	PQL	ng/Kg	
SL-217-SA6-SB-7.5-8.5	1,2,3,4,6,7,8-HPCDD	JB	0.255	5.46	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0758	5.46	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0353	5.46	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JQ	0.0431	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0796	5.46	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0353	5.46	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JQ	0.0433	5.46	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0877	5.46	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0927	1.09	PQL	ng/Kg	
	OCDD	JB	0.568	10.9	PQL	ng/Kg	
SL-235-SA6-SB-4.0-5.0	OCDF	JBQ	0.110	10.9	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDD	JB	0.324	5.41	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.147	5.41	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.0793	5.41	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0840	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.103	5.41	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0804	5.41	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0627	5.41	PQL	ng/Kg	
SL-269-SA6-SB-1.5-2.5	OCDD	JB	0.460	10.8	PQL	ng/Kg	J (all detects)
	OCDF	JB	0.208	10.8	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDD	JB	0.214	5.09	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JB	0.0981	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0463	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0432	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0539	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0488	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0565	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0792	1.02	PQL	ng/Kg	
	OCDD	JBQ	0.740	10.2	PQL	ng/Kg	J (all detects)
	OCDF	JBQ	0.345	10.2	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX146**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
28-Sep-2011	EB-SA5DS-SS-092811	6422610	EB	METHOD	1613B	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5	6422605	N	METHOD	1613B	III
28-Sep-2011	SL-034-SA5DS-SS-0.0-0.5MS	6422606	MS	METHOD	1613B	III
28-Sep-2011	DUP-02-SA5DS-QC-092811	6422609	FD	METHOD	1613B	III
28-Sep-2011	SL-040-SA5DS-SS-0.0-0.5	6422608	N	METHOD	1613B	III
30-Sep-2011	SL-132-SA7-SB-8.5-9.5	6426151	N	METHOD	1613B	III
30-Sep-2011	SL-132-SA7-SB-4.0-5.0	6426150	N	METHOD	1613B	III
30-Sep-2011	SL-023-SA8S-SS-0.0-0.5	6426146	N	METHOD	1613B	III
30-Sep-2011	SL-022-SA8S-SS-0.0-0.5	6426145	N	METHOD	1613B	III
30-Sep-2011	SL-180-SA7-SB-2.0-3.0	6426152	N	METHOD	1613B	III
30-Sep-2011	SL-084-SA7-SB-0.0-1.0	6426147	N	METHOD	1613B	III
30-Sep-2011	SL-115-SA7-SB-0.5-1.5	6426149	N	METHOD	1613B	III
30-Sep-2011	SL-113-SA7-SB-0.0-1.0	6426148	N	METHOD	1613B	III
03-Oct-2011	SL-064-SA6-SB-4.0-5.0	6427660	N	METHOD	1613B	III
03-Oct-2011	SL-064-SA6-SB-9.0-10.0	6427661	N	METHOD	1613B	III
04-Oct-2011	SL-037-SA6-SB-4.0-5.0	6429939	N	METHOD	1613B	III
04-Oct-2011	SL-037-SA6-SB-9.0-10.0	6429940	N	METHOD	1613B	III
04-Oct-2011	SL-225-SA6-SB-3.0-4.0	6429943	N	METHOD	1613B	III
04-Oct-2011	SL-007-SA6-SB-1.0-2.0	6429938	N	METHOD	1613B	III
04-Oct-2011	SL-206-SA6-SB-4.0-5.0	6429942	N	METHOD	1613B	III
04-Oct-2011	SL-191-SA6-SB-0.0-1.0	6429941	N	METHOD	1613B	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_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>

Sample ID: EB-SA5DS-SS-092811

Collected: 9/28/2011 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	2.89	JB	0.297	MDL	9.69	PQL	pg/L	U	B
1,2,3,4,6,7,8-HPCDF	1.76	JB	0.135	MDL	9.69	PQL	pg/L	U	B
1,2,3,4,7,8,9-HPCDF	0.521	JBQ	0.154	MDL	9.69	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDD	0.360	JB	0.179	MDL	9.69	PQL	pg/L	U	B
1,2,3,4,7,8-HxCDF	0.497	JB	0.112	MDL	9.69	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDD	0.286	JB	0.183	MDL	9.69	PQL	pg/L	U	B
1,2,3,6,7,8-HxCDF	0.497	JB	0.113	MDL	9.69	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDD	0.355	JBQ	0.181	MDL	9.69	PQL	pg/L	U	B
1,2,3,7,8,9-HxCDF	0.562	JB	0.108	MDL	9.69	PQL	pg/L	U	B
1,2,3,7,8-PECDD	0.594	JBQ	0.214	MDL	9.69	PQL	pg/L	U	B
1,2,3,7,8-PECDF	0.627	JBQ	0.135	MDL	9.69	PQL	pg/L	U	B
2,3,4,6,7,8-HxCDF	0.387	JBQ	0.110	MDL	9.69	PQL	pg/L	U	B
2,3,4,7,8-PECDF	0.712	JB	0.122	MDL	9.69	PQL	pg/L	U	B
OCDD	5.08	JB	0.321	MDL	19.4	PQL	pg/L	U	B
OCDF	1.67	JBQ	0.217	MDL	19.4	PQL	pg/L	U	B

<b>Method Category:</b>	<b>SVOA</b>
<b>Method:</b>	<b>1613B</b>
<b>Matrix:</b>	<b>SO</b>

Sample ID: DUP-02-SA5DS-QC-092811

Collected: 9/28/2011 1:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.809	JB	0.0253	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.571	JB	0.0239	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0552	JB	0.0241	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0496	JBQ	0.0248	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDF	0.172	JB	0.0333	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDD	0.0932	JB	0.0258	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.101	JBQ	0.0285	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.192	JBQ	0.0243	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.174	JQ	0.0196	MDL	5.06	PQL	ng/Kg	J	Z, FD
1,2,3,7,8-PECDD	0.0619	JB	0.0317	MDL	5.06	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDF	0.107	JB	0.0203	MDL	5.06	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HxCDF	0.134	JBQ	0.0161	MDL	5.06	PQL	ng/Kg	UJ	B, FD

\* denotes a non-reportable result

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

1/20/2012 11:52:45 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: DUP-02-SA5DS-QC-092811

Collected: 9/28/2011 1:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2,3,4,7,8-PECDF	0.117	JB	0.0193	MDL	5.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0615	J	0.0275	MDL	1.01	PQL	ng/Kg	J	Z, FD
OCDD	6.37	JB	0.0209	MDL	10.1	PQL	ng/Kg	J	Z
OCDF	0.480	JB	0.0340	MDL	10.1	PQL	ng/Kg	U	B

Sample ID: SL-007-SA6-SB-1.0-2.0

Collected: 10/4/2011 11:50:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.332	JBQ	0.0404	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.133	JB	0.0243	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0287	JBQ	0.0267	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0321	JQ	0.0257	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.0604	JBQ	0.0259	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0353	JQ	0.0254	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.0531	JBQ	0.0229	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0556	JQ	0.0255	MDL	5.24	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.0307	JBQ	0.0181	MDL	5.24	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0488	JBQ	0.0176	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0572	JBQ	0.0166	MDL	5.24	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0711	JBQ	0.0169	MDL	5.24	PQL	ng/Kg	U	B
OCDD	1.00	JB	0.0289	MDL	10.5	PQL	ng/Kg	U	B
OCDF	0.171	JB	0.0457	MDL	10.5	PQL	ng/Kg	U	B

Sample ID: SL-022-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.60	JB	0.0328	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.777	JB	0.0181	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0858	JB	0.0243	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0991	J	0.0297	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.126	JBQ	0.0243	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.182	JQ	0.0327	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.102	JB	0.0223	MDL	5.26	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.153	J	0.0283	MDL	5.26	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.112	JB	0.0309	MDL	5.26	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-022-SA8S-SS-0.0-0.5

Collected: 9/30/2011 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,7,8-PECDF	0.0992	JBQ	0.0286	MDL	5.26	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.130	JBQ	0.0220	MDL	5.26	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.165	JB	0.0276	MDL	5.26	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.128	JQ	0.0559	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	1.23	JB	0.0256	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-023-SA8S-SS-0.0-0.5

Collected: 9/30/2011 8:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	1.01	JB	0.0312	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0811	JBQ	0.0387	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.128	JQ	0.0384	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.186	JBQ	0.0295	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.310	J	0.0411	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.175	JB	0.0278	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.333	JQ	0.0666	MDL	5.25	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0383	JBQ	0.0314	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0967	JB	0.0377	MDL	5.25	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.116	JBQ	0.0368	MDL	5.25	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.183	JBQ	0.0287	MDL	5.25	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0466	JQ	0.0403	MDL	1.05	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.474	J	0.0693	MDL	1.05	PQL	ng/Kg	J	Z
OCDF	1.63	JB	0.0310	MDL	10.5	PQL	ng/Kg	J	Z

Sample ID: SL-034-SA5DS-SS-0.0-0.5

Collected: 9/28/2011 1:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.974	JBQ	0.0306	MDL	5.13	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.301	JB	0.0221	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8,9-HPCDF	0.0310	JBQ	0.0217	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,4,7,8-HxCDD	0.0227	U	0.0227	MDL	5.13	PQL	ng/Kg	UJ	FD
1,2,3,4,7,8-HXCDF	0.0775	JBQ	0.0315	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,6,7,8-HxCDD	0.0828	JQ	0.0233	MDL	5.13	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0507	JBQ	0.0302	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8,9-HxCDD	0.133	JQ	0.0244	MDL	5.13	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-034-SA5DS-SS-0.0-0.5

Collected: 9/28/2011 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
1,2,3,7,8,9-HXCDF	0.101	JBQ	0.0180	MDL	5.13	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0265	U	0.0265	MDL	5.13	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDF	0.0401	JBQ	0.0176	MDL	5.13	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HXCDF	0.0678	JBQ	0.0156	MDL	5.13	PQL	ng/Kg	UJ	B, FD
2,3,4,7,8-PECDF	0.0902	JBQ	0.0168	MDL	5.13	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0290	U	0.0290	MDL	1.03	PQL	ng/Kg	UJ	FD
OCDD	9.33	JB	0.0295	MDL	10.3	PQL	ng/Kg	J	Z, Q, Q
OCDF	0.613	JB	0.0370	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-037-SA6-SB-4.0-5.0

Collected: 10/4/2011 8:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.987	JB	0.0409	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.208	JB	0.0159	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0559	JBQ	0.0248	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0707	JQ	0.0228	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.107	JBQ	0.0207	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0677	J	0.0235	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0692	JB	0.0177	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0672	JQ	0.0240	MDL	5.10	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0594	JBQ	0.0211	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.121	JBQ	0.0270	MDL	5.10	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.131	JBQ	0.0196	MDL	5.10	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0562	JBQ	0.0177	MDL	5.10	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.181	JB	0.0188	MDL	5.10	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0582	J	0.0358	MDL	1.02	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0640	JQ	0.0320	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	5.58	JB	0.0282	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.386	JBQ	0.0354	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-037-SA6-SB-9.0-10.0

Collected: 10/4/2011 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	1.59	JB	0.0633	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.153	JB	0.0240	MDL	5.51	PQL	ng/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: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-037-SA6-SB-9.0-10.0

Collected: 10/4/2011 9:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0818	JBQ	0.0404	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0376	JQ	0.0322	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.140	JBQ	0.0249	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0453	JQ	0.0320	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0326	JBQ	0.0207	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0781	JQ	0.0332	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0283	JBQ	0.0237	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.125	JBQ	0.0400	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0902	JBQ	0.0200	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0541	JB	0.0184	MDL	5.51	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0634	JBQ	0.0204	MDL	5.51	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0547	JQ	0.0474	MDL	1.10	PQL	ng/Kg	J	Z
OCDF	0.205	JB	0.0632	MDL	11.0	PQL	ng/Kg	U	B

Sample ID: SL-040-SA5DS-SS-0.0-0.5

Collected: 9/28/2011 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	1.38	JB	0.0399	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.128	JBQ	0.0265	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.341	J	0.0439	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.275	JBQ	0.0531	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.696	JQ	0.0486	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.219	JBQ	0.0498	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.648	J	0.0372	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.585	JB	0.0201	MDL	5.06	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.154	JB	0.0298	MDL	5.06	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.201	JBQ	0.0184	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.172	JB	0.0171	MDL	5.06	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.0854	JB	0.0182	MDL	5.06	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.186	J	0.0314	MDL	1.01	PQL	ng/Kg	J	Z
OCDF	4.60	JB	0.0275	MDL	10.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-064-SA6-SB-4.0-5.0

**Collected:** 10/3/2011 3:30:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.91	JB	0.0859	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.835	J	0.0629	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.15	JB	0.0811	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	5.15	J	0.0615	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.790	JB	0.0678	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.83	J	0.0607	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.170	JBQ	0.0584	MDL	5.17	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	1.15	JBQ	0.0433	MDL	5.17	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0327	JBQ	0.0276	MDL	5.17	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	1.17	JB	0.0462	MDL	5.17	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.346	JB	0.0274	MDL	5.17	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.190	JQ	0.0390	MDL	1.03	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0770	JQ	0.0381	MDL	1.03	PQL	ng/Kg	J	Z

**Sample ID:** SL-064-SA6-SB-9.0-10.0

**Collected:** 10/3/2011 4:00:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.04	JB	0.0717	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.457	J	0.0636	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.461	JB	0.0468	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	3.01	J	0.0646	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.393	JB	0.0384	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	1.27	J	0.0635	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.127	JBQ	0.0468	MDL	5.64	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.299	JBQ	0.0522	MDL	5.64	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0547	JB	0.0263	MDL	5.64	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.606	JB	0.0373	MDL	5.64	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.152	JB	0.0264	MDL	5.64	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0779	J	0.0414	MDL	1.13	PQL	ng/Kg	J	Z

**Sample ID:** SL-084-SA7-SB-0.0-1.0

**Collected:** 9/30/2011 12:05:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.374	JB	0.0230	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.144	JBQ	0.0189	MDL	5.09	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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# Data Qualifier Summary

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-084-SA7-SB-0.0-1.0

Collected: 9/30/2011 12:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	0.0268	JBQ	0.0251	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0473	J	0.0235	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0709	JBQ	0.0205	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0561	JQ	0.0265	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0683	JBQ	0.0168	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0453	JQ	0.0407	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0466	JBQ	0.0243	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0447	JB	0.0271	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0527	JB	0.0135	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0603	JBQ	0.0127	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.106	JBQ	0.0138	MDL	5.09	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0390	J	0.0340	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	2.44	JB	0.0205	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.212	JB	0.0345	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-113-SA7-SB-0.0-1.0

Collected: 9/30/2011 2:06:00

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	0.662	JB	0.0255	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.195	JBQ	0.0114	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0386	JBQ	0.0204	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0587	J	0.0240	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.149	JBQ	0.0185	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.487	J	0.0241	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.161	JB	0.0157	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.643	J	0.0234	MDL	5.53	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0741	JB	0.0218	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.155	JB	0.0249	MDL	5.53	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.156	JB	0.0135	MDL	5.53	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0789	JBQ	0.0167	MDL	5.53	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.167	JB	0.0142	MDL	5.53	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0643	JQ	0.0266	MDL	1.11	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0416	JQ	0.0197	MDL	1.11	PQL	ng/Kg	J	Z
OCDD	4.39	JB	0.0200	MDL	11.1	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-113-SA7-SB-0.0-1.0

Collected: 9/30/2011 2:06:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	0.329	JB	0.0331	MDL	11.1	PQL	ng/Kg	U	B

Sample ID: SL-115-SA7-SB-0.5-1.5

Collected: 9/30/2011 12:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.395	JB	0.0262	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.130	JB	0.0101	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0320	JBQ	0.0263	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.313	J	0.0270	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.199	JBQ	0.0192	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.434	J	0.0283	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0431	JBQ	0.0208	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0468	JBQ	0.0307	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0864	JB	0.0135	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.0565	JB	0.0157	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.110	JBQ	0.0140	MDL	5.20	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0243	J	0.0220	MDL	1.04	PQL	ng/Kg	J	Z
OCDD	3.13	JB	0.0248	MDL	10.4	PQL	ng/Kg	J	Z
OCDF	0.221	JB	0.0380	MDL	10.4	PQL	ng/Kg	U	B

Sample ID: SL-132-SA7-SB-4.0-5.0

Collected: 9/30/2011 8:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	0.709	JB	0.0181	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0713	JB	0.0251	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0415	JQ	0.0316	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0727	JBQ	0.0195	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.239	J	0.0317	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0644	JBQ	0.0182	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.187	JQ	0.0310	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0498	JBQ	0.0208	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0449	JBQ	0.0226	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0365	JBQ	0.0140	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0652	JBQ	0.0175	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.115	JBQ	0.0130	MDL	5.09	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-132-SA7-SB-4.0-5.0

Collected: 9/30/2011 8:23:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	1.77	JB	0.0299	MDL	10.2	PQL	ng/Kg	J	Z

Sample ID: SL-132-SA7-SB-8.5-9.5

Collected: 9/30/2011 8:10:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.70	JB	0.0493	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.364	JB	0.0153	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.102	JBQ	0.0267	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0579	JBQ	0.0257	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.446	J	0.0332	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.182	JB	0.0209	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.762	J	0.0307	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.110	JBQ	0.0243	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0489	JBQ	0.0300	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0636	JBQ	0.0168	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0422	JB	0.0198	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0637	JB	0.0180	MDL	5.28	PQL	ng/Kg	U	B
OCDF	0.667	JB	0.0484	MDL	10.6	PQL	ng/Kg	J	Z

Sample ID: SL-180-SA7-SB-2.0-3.0

Collected: 9/30/2011 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	0.591	JBQ	0.0301	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.191	JB	0.0102	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0489	JBQ	0.0182	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0426	JBQ	0.0168	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0787	JQ	0.0220	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0179	JBQ	0.0140	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.127	JQ	0.0220	MDL	5.12	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0730	JBQ	0.0155	MDL	5.12	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0278	JB	0.0159	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0712	JBQ	0.0134	MDL	5.12	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0980	JBQ	0.0169	MDL	5.12	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0376	JQ	0.0366	MDL	1.02	PQL	ng/Kg	J	Z
OCDD	2.78	JB	0.0195	MDL	10.2	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-180-SA7-SB-2.0-3.0

Collected: 9/30/2011 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
OCDF	0.252	JBQ	0.0377	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-191-SA6-SB-0.0-1.0

Collected: 10/4/2011 3:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.65	JB	0.0563	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.29	J	0.0506	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.38	JB	0.0471	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	4.20	J	0.0542	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.24	JB	0.0467	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.09	J	0.0527	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.380	JBQ	0.0409	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.822	JB	0.0462	MDL	4.91	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.577	JB	0.0353	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.49	JB	0.0357	MDL	4.91	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.978	JB	0.0329	MDL	4.91	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0615	J	0.0337	MDL	0.983	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.419	J	0.0566	MDL	0.983	PQL	ng/Kg	J	Z

Sample ID: SL-206-SA6-SB-4.0-5.0

Collected: 10/4/2011 3:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.58	JB	0.0481	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.642	JB	0.0180	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0703	JBQ	0.0294	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0694	JQ	0.0292	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.0777	JBQ	0.0215	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.132	JQ	0.0294	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0463	JB	0.0192	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.108	J	0.0296	MDL	5.21	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0452	JBQ	0.0296	MDL	5.21	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0328	JBQ	0.0179	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0648	JB	0.0190	MDL	5.21	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.121	JBQ	0.0175	MDL	5.21	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.100	JQ	0.0325	MDL	1.04	PQL	ng/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: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method Category: SVOA

Method: 1613B

Matrix: SO

Sample ID: SL-206-SA6-SB-4.0-5.0

Collected: 10/4/2011 3:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
OCDF	1.38	JB	0.0430	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-225-SA6-SB-3.0-4.0

Collected: 10/4/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.663	JB	0.0397	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.257	JB	0.0141	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.0364	JBQ	0.0172	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.0694	J	0.0236	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.0170	JBQ	0.0150	MDL	5.43	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.0467	JQ	0.0244	MDL	5.43	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0309	JBQ	0.0272	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.0426	JB	0.0148	MDL	5.43	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0638	JBQ	0.0152	MDL	5.43	PQL	ng/Kg	U	B
OCDD	6.16	JB	0.0259	MDL	10.9	PQL	ng/Kg	J	Z
OCDF	0.575	JB	0.0389	MDL	10.9	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## Data Qualifier Summary

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

### Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
B	Method Blank Contamination
E	Matrix Spike Precision
FD	Field Duplicate Precision
L	Laboratory Control Spike Upper Estimation
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
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

DX146

# Method Blank Outlier Report

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** AQ

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2760B370751	10/5/2011 7:51:00 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	2.57 pg/L 1.42 pg/L 0.763 pg/L 0.388 pg/L 0.622 pg/L 0.421 pg/L 0.553 pg/L 0.543 pg/L 0.770 pg/L 0.712 pg/L 0.901 pg/L 0.643 pg/L 0.929 pg/L 0.373 pg/L 0.261 pg/L 3.69 pg/L 1.50 pg/L	EB-SA5DS-SS-092811

The 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-SA5DS-SS-092811(RES)	1,2,3,4,6,7,8-HPCDD	2.89 pg/L	2.89U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,4,6,7,8-HPCDF	1.76 pg/L	1.76U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,4,7,8,9-HPCDF	0.521 pg/L	0.521U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,4,7,8-HxCDD	0.360 pg/L	0.360U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,4,7,8-HxCDF	0.497 pg/L	0.497U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,6,7,8-HxCDD	0.286 pg/L	0.286U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,6,7,8-HxCDF	0.497 pg/L	0.497U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,7,8,9-HxCDD	0.355 pg/L	0.355U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,7,8,9-HxCDF	0.562 pg/L	0.562U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,7,8-PECDD	0.594 pg/L	0.594U pg/L
EB-SA5DS-SS-092811(RES)	1,2,3,7,8-PECDF	0.627 pg/L	0.627U pg/L
EB-SA5DS-SS-092811(RES)	2,3,4,6,7,8-HxCDF	0.387 pg/L	0.387U pg/L
EB-SA5DS-SS-092811(RES)	2,3,4,7,8-PECDF	0.712 pg/L	0.712U pg/L
EB-SA5DS-SS-092811(RES)	OCDD	5.08 pg/L	5.08U pg/L
EB-SA5DS-SS-092811(RES)	OCDF	1.67 pg/L	1.67U pg/L

# Method Blank Outlier Report

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method:** 1613B  
**Matrix:** SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2830B371806	10/13/2011 6:06:00 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-HXCDF 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	0.268 ng/Kg 0.129 ng/Kg 0.0187 ng/Kg 0.0314 ng/Kg 0.0471 ng/Kg 0.0484 ng/Kg 0.0326 ng/Kg 0.0149 ng/Kg 0.0274 ng/Kg 0.0319 ng/Kg 0.392 ng/Kg 0.121 ng/Kg	SL-007-SA6-SB-1.0-2.0 SL-022-SA8S-SS-0.0-0.5 SL-023-SA8S-SS-0.0-0.5 SL-034-SA5DS-SS-0.0-0.5 SL-037-SA6-SB-4.0-5.0 SL-037-SA6-SB-9.0-10.0 SL-040-SA5DS-SS-0.0-0.5 SL-064-SA6-SB-4.0-5.0 SL-064-SA6-SB-9.0-10.0 SL-084-SA7-SB-0.0-1.0 SL-113-SA7-SB-0.0-1.0 SL-115-SA7-SB-0.5-1.5 SL-132-SA7-SB-4.0-5.0 SL-132-SA7-SB-8.5-9.5 SL-180-SA7-SB-2.0-3.0 SL-191-SA6-SB-0.0-1.0 SL-206-SA6-SB-4.0-5.0 SL-225-SA6-SB-3.0-4.0
BLK2920B371824	10/20/2011 6:24:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HXCDF 1,2,3,6,7,8-HXCDD 1,2,3,6,7,8-HXCDF 1,2,3,7,8,9-HXCDD 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	0.305 ng/Kg 0.370 ng/Kg 0.0805 ng/Kg 0.0310 ng/Kg 0.114 ng/Kg 0.0294 ng/Kg 0.0822 ng/Kg 0.0415 ng/Kg 0.0488 ng/Kg 0.0392 ng/Kg 0.0874 ng/Kg 0.0693 ng/Kg 0.653 ng/Kg 0.256 ng/Kg	DUP-02-SA5DS-QC-092811

The 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-02-SA5DS-QC-092811(RES)	1,2,3,4,6,7,8-HPCDD	0.809 ng/Kg	0.809U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,4,6,7,8-HPCDF	0.571 ng/Kg	0.571U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,4,7,8,9-HPCDF	0.0552 ng/Kg	0.0552U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,4,7,8-HxCDD	0.0496 ng/Kg	0.0496U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,4,7,8-HXCDF	0.172 ng/Kg	0.172U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,6,7,8-HXCDD	0.0932 ng/Kg	0.0932U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,6,7,8-HXCDF	0.101 ng/Kg	0.101U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,7,8,9-HXCDD	0.192 ng/Kg	0.192U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,7,8-PECDD	0.0619 ng/Kg	0.0619U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	1,2,3,7,8-PECDF	0.107 ng/Kg	0.107U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	2,3,4,6,7,8-HXCDF	0.134 ng/Kg	0.134U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	2,3,4,7,8-PECDF	0.117 ng/Kg	0.117U ng/Kg
DUP-02-SA5DS-QC-092811(RES)	OCDF	0.480 ng/Kg	0.480U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDD	0.332 ng/Kg	0.332U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,4,6,7,8-HPCDF	0.133 ng/Kg	0.133U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0287 ng/Kg	0.0287U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,4,7,8-HXCDF	0.0604 ng/Kg	0.0604U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,6,7,8-HXCDF	0.0531 ng/Kg	0.0531U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	1,2,3,7,8,9-HXCDF	0.0307 ng/Kg	0.0307U ng/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: DX146

Laboratory: LL

EDD Filename: DX146\_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-007-SA6-SB-1.0-2.0(RES)	1,2,3,7,8-PECDF	0.0488 ng/Kg	0.0488U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	2,3,4,6,7,8-HXCDF	0.0572 ng/Kg	0.0572U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	2,3,4,7,8-PECDF	0.0711 ng/Kg	0.0711U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	OCDD	1.00 ng/Kg	1.00U ng/Kg
SL-007-SA6-SB-1.0-2.0(RES)	OCDF	0.171 ng/Kg	0.171U ng/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0858 ng/Kg	0.0858U ng/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.126 ng/Kg	0.126U ng/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.102 ng/Kg	0.102U ng/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.112 ng/Kg	0.112U ng/Kg
SL-022-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.130 ng/Kg	0.130U ng/Kg
SL-023-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0811 ng/Kg	0.0811U ng/Kg
SL-023-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.175 ng/Kg	0.175U ng/Kg
SL-023-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0383 ng/Kg	0.0383U ng/Kg
SL-023-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0967 ng/Kg	0.0967U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	0.974 ng/Kg	0.974U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.301 ng/Kg	0.301U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0310 ng/Kg	0.0310U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.0775 ng/Kg	0.0775U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0507 ng/Kg	0.0507U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.101 ng/Kg	0.101U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0401 ng/Kg	0.0401U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0678 ng/Kg	0.0678U ng/Kg
SL-034-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0902 ng/Kg	0.0902U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.987 ng/Kg	0.987U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.208 ng/Kg	0.208U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0559 ng/Kg	0.0559U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.107 ng/Kg	0.107U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0692 ng/Kg	0.0692U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0594 ng/Kg	0.0594U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.121 ng/Kg	0.121U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0562 ng/Kg	0.0562U ng/Kg
SL-037-SA6-SB-4.0-5.0(RES)	OCDF	0.386 ng/Kg	0.386U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,4,6,7,8-HPCDF	0.153 ng/Kg	0.153U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0818 ng/Kg	0.0818U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,4,7,8-HXCDF	0.140 ng/Kg	0.140U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,6,7,8-HXCDF	0.0326 ng/Kg	0.0326U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.0283 ng/Kg	0.0283U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDD	0.125 ng/Kg	0.125U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	2,3,4,6,7,8-HXCDF	0.0541 ng/Kg	0.0541U ng/Kg
SL-037-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.0634 ng/Kg	0.0634U ng/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: DX146

Laboratory: LL

EDD Filename: DX146\_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-037-SA6-SB-9.0-10.0(RES)	OCDF	0.205 ng/Kg	0.205U ng/Kg
SL-040-SA5DS-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.219 ng/Kg	0.219U ng/Kg
SL-040-SA5DS-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.154 ng/Kg	0.154U ng/Kg
SL-040-SA5DS-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0854 ng/Kg	0.0854U ng/Kg
SL-064-SA6-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.170 ng/Kg	0.170U ng/Kg
SL-064-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0327 ng/Kg	0.0327U ng/Kg
SL-064-SA6-SB-9.0-10.0(RES)	1,2,3,7,8,9-HXCDF	0.127 ng/Kg	0.127U ng/Kg
SL-064-SA6-SB-9.0-10.0(RES)	1,2,3,7,8-PECDF	0.0547 ng/Kg	0.0547U ng/Kg
SL-064-SA6-SB-9.0-10.0(RES)	2,3,4,7,8-PECDF	0.152 ng/Kg	0.152U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDD	0.374 ng/Kg	0.374U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDF	0.144 ng/Kg	0.144U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0268 ng/Kg	0.0268U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8-HXCDF	0.0709 ng/Kg	0.0709U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,6,7,8-HXCDF	0.0683 ng/Kg	0.0683U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDF	0.0466 ng/Kg	0.0466U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDD	0.0447 ng/Kg	0.0447U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDF	0.0527 ng/Kg	0.0527U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	2,3,4,6,7,8-HXCDF	0.0603 ng/Kg	0.0603U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	2,3,4,7,8-PECDF	0.106 ng/Kg	0.106U ng/Kg
SL-084-SA7-SB-0.0-1.0(RES)	OCDF	0.212 ng/Kg	0.212U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDD	0.662 ng/Kg	0.662U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,4,6,7,8-HPCDF	0.195 ng/Kg	0.195U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0386 ng/Kg	0.0386U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,4,7,8-HXCDF	0.149 ng/Kg	0.149U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,6,7,8-HXCDF	0.161 ng/Kg	0.161U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,7,8,9-HXCDF	0.0741 ng/Kg	0.0741U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	1,2,3,7,8-PECDD	0.155 ng/Kg	0.155U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	2,3,4,6,7,8-HXCDF	0.0789 ng/Kg	0.0789U ng/Kg
SL-113-SA7-SB-0.0-1.0(RES)	OCDF	0.329 ng/Kg	0.329U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDD	0.395 ng/Kg	0.395U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,4,6,7,8-HPCDF	0.130 ng/Kg	0.130U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,4,7,8-HXCDF	0.0320 ng/Kg	0.0320U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,6,7,8-HXCDF	0.199 ng/Kg	0.199U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,7,8,9-HXCDF	0.0431 ng/Kg	0.0431U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	1,2,3,7,8-PECDD	0.0468 ng/Kg	0.0468U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	2,3,4,6,7,8-HXCDF	0.0565 ng/Kg	0.0565U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	2,3,4,7,8-PECDF	0.110 ng/Kg	0.110U ng/Kg
SL-115-SA7-SB-0.5-1.5(RES)	OCDF	0.221 ng/Kg	0.221U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0713 ng/Kg	0.0713U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0727 ng/Kg	0.0727U ng/Kg

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# Method Blank Outlier Report

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_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-132-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0644 ng/Kg	0.0644U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0498 ng/Kg	0.0498U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0449 ng/Kg	0.0449U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0365 ng/Kg	0.0365U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0652 ng/Kg	0.0652U ng/Kg
SL-132-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.115 ng/Kg	0.115U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,4,6,7,8-HPCDF	0.364 ng/Kg	0.364U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,4,7,8-HXCDF	0.0579 ng/Kg	0.0579U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,6,7,8-HXCDF	0.182 ng/Kg	0.182U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,7,8,9-HXCDF	0.110 ng/Kg	0.110U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,7,8-PECDD	0.0489 ng/Kg	0.0489U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	1,2,3,7,8-PECDF	0.0636 ng/Kg	0.0636U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	2,3,4,6,7,8-HXCDF	0.0422 ng/Kg	0.0422U ng/Kg
SL-132-SA7-SB-8.5-9.5(RES)	2,3,4,7,8-PECDF	0.0637 ng/Kg	0.0637U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDD	0.591 ng/Kg	0.591U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,4,6,7,8-HPCDF	0.191 ng/Kg	0.191U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0489 ng/Kg	0.0489U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,4,7,8-HXCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,6,7,8-HXCDF	0.0179 ng/Kg	0.0179U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,7,8,9-HXCDF	0.0730 ng/Kg	0.0730U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	1,2,3,7,8-PECDF	0.0278 ng/Kg	0.0278U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	2,3,4,6,7,8-HXCDF	0.0712 ng/Kg	0.0712U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	2,3,4,7,8-PECDF	0.0980 ng/Kg	0.0980U ng/Kg
SL-180-SA7-SB-2.0-3.0(RES)	OCDF	0.252 ng/Kg	0.252U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.642 ng/Kg	0.642U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0703 ng/Kg	0.0703U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.0777 ng/Kg	0.0777U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0463 ng/Kg	0.0463U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0452 ng/Kg	0.0452U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0328 ng/Kg	0.0328U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0648 ng/Kg	0.0648U ng/Kg
SL-206-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.121 ng/Kg	0.121U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.663 ng/Kg	0.663U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.257 ng/Kg	0.257U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0364 ng/Kg	0.0364U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0170 ng/Kg	0.0170U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0309 ng/Kg	0.0309U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0426 ng/Kg	0.0426U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	2,3,4,7,8-PECDF	0.0638 ng/Kg	0.0638U ng/Kg
SL-225-SA6-SB-3.0-4.0(RES)	OCDF	0.575 ng/Kg	0.575U ng/Kg

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_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-034-SA5DS-SS-0.0-0.5MSD (SL-034-SA5DS-SS-0.0-0.5)	OCDD	-	169	40.00-135.00	54 (20.00)	OCDD	J (all detects)

# Field Duplicate RPD Report

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
MOISTURE	4.0	3.8	5		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-034-SA5DS-SS-0.0-0.5	DUP-02-SA5DS-QC-092811			
1,2,3,4,6,7,8-HPCDD	0.974	0.809	19	50.00	No Qualifiers Applied
1,2,3,6,7,8-HXCDD	0.0828	0.0932	12	50.00	
1,2,3,7,8,9-HXCDD	0.133	0.192	36	50.00	
2,3,4,7,8-PECDF	0.0902	0.117	26	50.00	
OCDD	9.33	6.37	38	50.00	
OCDF	0.613	0.480	24	50.00	J(all detects) UJ(all non-detects)
1,2,3,4,6,7,8-HPCDF	0.301	0.571	62	50.00	
1,2,3,4,7,8,9-HPCDF	0.0310	0.0552	56	50.00	
1,2,3,4,7,8-HxCDD	5.13 U	0.0496	200	50.00	
1,2,3,4,7,8-HXCDF	0.0775	0.172	76	50.00	
1,2,3,6,7,8-HXCDF	0.0507	0.101	66	50.00	
1,2,3,7,8,9-HXCDF	0.101	0.174	53	50.00	
1,2,3,7,8-PECDD	5.13 U	0.0619	200	50.00	
1,2,3,7,8-PECDF	0.0401	0.107	91	50.00	
2,3,4,6,7,8-HXCDF	0.0678	0.134	66	50.00	
2,3,7,8-TCDF	1.03 U	0.0615	200	50.00	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-SA5DS-SS-092811	1,2,3,4,6,7,8-HPCDD	JB	2.89	9.69	PQL	pg/L	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.76	9.69	PQL	pg/L	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.521	9.69	PQL	pg/L	
	1,2,3,4,7,8-HxCDD	JB	0.360	9.69	PQL	pg/L	
	1,2,3,4,7,8-HXCDF	JB	0.497	9.69	PQL	pg/L	
	1,2,3,6,7,8-HxCDD	JB	0.286	9.69	PQL	pg/L	
	1,2,3,6,7,8-HXCDF	JB	0.497	9.69	PQL	pg/L	
	1,2,3,7,8,9-HxCDD	JBQ	0.355	9.69	PQL	pg/L	
	1,2,3,7,8,9-HXCDF	JB	0.562	9.69	PQL	pg/L	
	1,2,3,7,8-PECDD	JBQ	0.594	9.69	PQL	pg/L	
	1,2,3,7,8-PECDF	JBQ	0.627	9.69	PQL	pg/L	
	2,3,4,6,7,8-HXCDF	JBQ	0.387	9.69	PQL	pg/L	
	2,3,4,7,8-PECDF	JB	0.712	9.69	PQL	pg/L	
	OCDD	JB	5.08	19.4	PQL	pg/L	
	OCDF	JBQ	1.67	19.4	PQL	pg/L	

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP-02-SA5DS-QC-092811	1,2,3,4,6,7,8-HPCDD	JB	0.809	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.571	5.06	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0552	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0496	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.172	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0932	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.101	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.192	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.174	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0619	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.107	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.134	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.117	5.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0615	1.01	PQL	ng/Kg	
	OCDD	JB	6.37	10.1	PQL	ng/Kg	
	OCDF	JB	0.480	10.1	PQL	ng/Kg	
SL-007-SA6-SB-1.0-2.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.332	5.24	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.133	5.24	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0287	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0321	5.24	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0604	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.0353	5.24	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0531	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.0556	5.24	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0307	5.24	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0488	5.24	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0572	5.24	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0711	5.24	PQL	ng/Kg	
	OCDD	JB	1.00	10.5	PQL	ng/Kg	
	OCDF	JB	0.171	10.5	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-022-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.60	5.26	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.777	5.26	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0858	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0991	5.26	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.126	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.182	5.26	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.102	5.26	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	0.153	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.112	5.26	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0992	5.26	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.130	5.26	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.165	5.26	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.128	1.05	PQL	ng/Kg	
	OCDF	JB	1.23	10.5	PQL	ng/Kg	
SL-023-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.01	5.25	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0811	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.128	5.25	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.186	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.310	5.25	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.175	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.333	5.25	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0383	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0967	5.25	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.116	5.25	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.183	5.25	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0466	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.474	1.05	PQL	ng/Kg	
	OCDF	JB	1.63	10.5	PQL	ng/Kg	
SL-034-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JBQ	0.974	5.13	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.301	5.13	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0310	5.13	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0775	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.0828	5.13	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0507	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.133	5.13	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.101	5.13	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0401	5.13	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0678	5.13	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0902	5.13	PQL	ng/Kg	
	OCDD	JB	9.33	10.3	PQL	ng/Kg	
	OCDF	JB	0.613	10.3	PQL	ng/Kg	
SL-037-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.987	5.10	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.208	5.10	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0559	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0707	5.10	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.107	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.0677	5.10	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.0692	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.0672	5.10	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0594	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.121	5.10	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.131	5.10	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0562	5.10	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.181	5.10	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0582	1.02	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0640	1.02	PQL	ng/Kg	
	OCDD	JB	5.58	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.386	10.2	PQL	ng/Kg	

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

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# Reporting Limit Outliers

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-037-SA6-SB-9.0-10.0	1,2,3,4,6,7,8-HPCDD	JB	1.59	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.153	5.51	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0818	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0376	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.140	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.0453	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0326	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.0781	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0283	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.125	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0902	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0541	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0634	5.51	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0547	1.10	PQL	ng/Kg	
	OCDF	JB	0.205	11.0	PQL	ng/Kg	
SL-040-SA5DS-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	1.38	5.06	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.128	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.341	5.06	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.275	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.696	5.06	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.219	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	0.648	5.06	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.585	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.154	5.06	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.201	5.06	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.172	5.06	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0854	5.06	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.186	1.01	PQL	ng/Kg	
	OCDF	JB	4.60	10.1	PQL	ng/Kg	
SL-064-SA6-SB-4.0-5.0	1,2,3,4,7,8,9-HPCDF	JB	2.91	5.17	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.835	5.17	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.15	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	5.15	5.17	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.790	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	1.83	5.17	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.170	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	1.15	5.17	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0327	5.17	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.17	5.17	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.346	5.17	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.190	1.03	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0770	1.03	PQL	ng/Kg	
SL-064-SA6-SB-9.0-10.0	1,2,3,4,7,8,9-HPCDF	JB	1.04	5.64	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	0.457	5.64	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	0.461	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	3.01	5.64	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.393	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	1.27	5.64	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.127	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.299	5.64	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0547	5.64	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.606	5.64	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.152	5.64	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0779	1.13	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-084-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JB	0.374	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.144	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0268	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0473	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0709	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.0561	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0683	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.0453	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0466	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0447	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0527	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0603	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.106	5.09	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0390	1.02	PQL	ng/Kg	
	OCDD	JB	2.44	10.2	PQL	ng/Kg	
	OCDF	JB	0.212	10.2	PQL	ng/Kg	
SL-113-SA7-SB-0.0-1.0	1,2,3,4,6,7,8-HPCDD	JB	0.662	5.53	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.195	5.53	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0386	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0587	5.53	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.149	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.487	5.53	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.161	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	0.643	5.53	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0741	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.155	5.53	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.156	5.53	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0789	5.53	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.167	5.53	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0643	1.11	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0416	1.11	PQL	ng/Kg	
	OCDD	JB	4.39	11.1	PQL	ng/Kg	
	OCDF	JB	0.329	11.1	PQL	ng/Kg	
SL-115-SA7-SB-0.5-1.5	1,2,3,4,6,7,8-HPCDD	JB	0.395	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.130	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0320	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.313	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.199	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	0.434	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0431	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0468	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0864	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0565	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.110	5.20	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0243	1.04	PQL	ng/Kg	
	OCDD	JB	3.13	10.4	PQL	ng/Kg	
	OCDF	JB	0.221	10.4	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-132-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	0.709	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.0713	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0415	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0727	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.239	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0644	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.187	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0498	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0449	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0365	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0652	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.115	5.09	PQL	ng/Kg	
	OCDF	JB	1.77	10.2	PQL	ng/Kg	
SL-132-SA7-SB-8.5-9.5	1,2,3,4,6,7,8-HPCDD	JB	2.70	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.364	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.102	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0579	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	0.446	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.182	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	0.762	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.110	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0489	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0636	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0422	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0637	5.28	PQL	ng/Kg	
	OCDF	JB	0.667	10.6	PQL	ng/Kg	
SL-180-SA7-SB-2.0-3.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.591	5.12	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.191	5.12	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0489	5.12	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0426	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JQ	0.0787	5.12	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0179	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JQ	0.127	5.12	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0730	5.12	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0278	5.12	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0712	5.12	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0980	5.12	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0376	1.02	PQL	ng/Kg	
	OCDD	JB	2.78	10.2	PQL	ng/Kg	
	OCDF	JBQ	0.252	10.2	PQL	ng/Kg	
SL-191-SA6-SB-0.0-1.0	1,2,3,4,7,8,9-HPCDF	JB	1.65	4.91	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.29	4.91	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.38	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	J	4.20	4.91	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.24	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	J	2.09	4.91	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.380	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.822	4.91	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.577	4.91	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	1.49	4.91	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.978	4.91	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0615	0.983	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.419	0.983	PQL	ng/Kg	



# Reporting Limit Outliers

Lab Reporting Batch ID: DX146

Laboratory: LL

EDD Filename: DX146\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-206-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	3.58	5.21	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.642	5.21	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0703	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0694	5.21	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0777	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JQ	0.132	5.21	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0463	5.21	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	J	0.108	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0452	5.21	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0328	5.21	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0648	5.21	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.121	5.21	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.100	1.04	PQL	ng/Kg	
	OCDF	JB	1.38	10.4	PQL	ng/Kg	
SL-225-SA6-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.663	5.43	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.257	5.43	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.0364	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	J	0.0694	5.43	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.0170	5.43	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JQ	0.0467	5.43	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0309	5.43	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0426	5.43	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0638	5.43	PQL	ng/Kg	
	OCDD	JB	6.16	10.9	PQL	ng/Kg	
	OCDF	JB	0.575	10.9	PQL	ng/Kg	

# **SAMPLE DELIVERY GROUP**

**DX147**

## **Attachment I**

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

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
29-Sep-2011	SL-007-SA8S-SS-0.0-0.5	6423878	N	METHOD	1613B	IV
29-Sep-2011	SL-005-SA8S-SS-0.0-0.5	6423877	N	METHOD	1613B	IV
29-Sep-2011	SL-177-SA7-SB-3.0-4.0	6423886	N	METHOD	1613B	IV
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5	6423874	N	METHOD	1613B	IV
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MS	6423875	MS	METHOD	1613B	IV
29-Sep-2011	SL-003-SA8S-SS-0.0-0.5MSD	6423876	MSD	METHOD	1613B	IV
29-Sep-2011	SL-127-SA7-SB-4.0-5.0	6423885	N	METHOD	1613B	IV
29-Sep-2011	DUP01-SA8S-QC-092911	6423883	FD	METHOD	1613B	IV
29-Sep-2011	SL-001-SA8S-SS-0.0-0.5	6423873	N	METHOD	1613B	IV
29-Sep-2011	SL-126-SA7-SB-4.0-5.0	6423884	N	METHOD	1613B	IV
29-Sep-2011	SL-024-SA8S-SS-0.0-0.5	6423882	N	METHOD	1613B	IV
29-Sep-2011	SL-013-SA8S-SS-0.0-0.5	6423879	N	METHOD	1613B	IV
29-Sep-2011	SL-014-SA8S-SS-0.0-0.5	6423880	N	METHOD	1613B	IV
29-Sep-2011	SL-015-SA8S-SS-0.0-0.5	6423881	N	METHOD	1613B	IV
06-Oct-2011	SL-229-SA6-SS-0.0-0.5	6431147	N	METHOD	1613B	IV
06-Oct-2011	SL-229-SA6-SB-2.0-3.0	6431152	N	METHOD	1613B	IV
06-Oct-2011	SL-230-SA6-SS-0.0-0.5	6431148	N	METHOD	1613B	IV
06-Oct-2011	SL-230-SA6-SB-4.0-5.0	6431153	N	METHOD	1613B	IV
06-Oct-2011	SL-254-SA6-SB-2.5-3.5	6431154	N	METHOD	1613B	IV
06-Oct-2011	SL-234-SA6-SS-0.0-0.5	6431149	N	METHOD	1613B	IV
06-Oct-2011	SL-232-SA6-SS-0.0-0.5	6431150	N	METHOD	1613B	IV
06-Oct-2011	SL-232-SA6-SB-2.5-3.5	6431151	N	METHOD	1613B	IV

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: DUP01-SA8S-QC-092911

Collected: 9/29/2011 10:05:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.04	JB	0.0303	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.615	JBQ	0.0183	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0624	JBQ	0.0245	MDL	5.15	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0704	JQ	0.0271	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.361	J	0.0281	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.193	JB	0.0260	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.148	JB	0.0233	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.138	JB	0.0256	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.0609	JB	0.0205	MDL	5.15	PQL	ng/Kg	UJ	B, FD
1,2,3,7,8-PECDD	0.0846	JQ	0.0258	MDL	5.15	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0763	JB	0.0215	MDL	5.15	PQL	ng/Kg	UJ	B, FD
2,3,4,6,7,8-HxCDF	0.149	JB	0.0186	MDL	5.15	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.233	JB	0.0220	MDL	5.15	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.265	JB	0.0349	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	1.00	JB	0.0284	MDL	10.3	PQL	ng/Kg	J	Z

Sample ID: SL-001-SA8S-SS-0.0-0.5

Collected: 9/29/2011 11:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.77	JB	0.0590	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.592	JB	0.0323	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.118	JBQ	0.0499	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0733	J	0.0329	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.288	JQ	0.0388	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.152	JB	0.0326	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.133	JBQ	0.0311	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.125	JB	0.0347	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0547	JBQ	0.0320	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0599	J	0.0362	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0941	JBQ	0.0250	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.203	JB	0.0242	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.381	JB	0.0263	MDL	5.28	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.179	JB	0.0436	MDL	1.06	PQL	ng/Kg	U	B
OCDF	1.15	JB	0.0920	MDL	10.6	PQL	ng/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: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-003-SA8S-SS-0.0-0.5

Collected: 9/29/2011 9:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.71	JB	0.0405	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.574	JB	0.0211	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0457	JB	0.0282	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0692	JQ	0.0320	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.220	J	0.0352	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.165	JB	0.0345	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.113	JBQ	0.0268	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.163	JBQ	0.0290	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.0252	U	0.0252	MDL	5.09	PQL	ng/Kg	UJ	FD
1,2,3,7,8-PECDD	0.0765	J	0.0313	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0217	U	0.0217	MDL	5.09	PQL	ng/Kg	UJ	FD
2,3,4,6,7,8-HxCDF	0.150	JB	0.0209	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.317	JB	0.0220	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.196	JB	0.0375	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	0.882	JB	0.0464	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-005-SA8S-SS-0.0-0.5

Collected: 9/29/2011 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	0.781	JB	0.0297	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.151	JB	0.0191	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0559	JB	0.0189	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0315	J	0.0252	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.0398	JQ	0.0348	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.0811	JBQ	0.0273	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0340	JB	0.0326	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0560	JB	0.0238	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0374	JBQ	0.0192	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0587	JQ	0.0286	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0389	JB	0.0198	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0512	JB	0.0162	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0720	JBQ	0.0189	MDL	5.09	PQL	ng/Kg	U	B
OCDD	5.28	JB	0.0248	MDL	10.2	PQL	ng/Kg	J	Z
OCDF	0.353	JB	0.0407	MDL	10.2	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-007-SA8S-SS-0.0-0.5

Collected: 9/29/2011 8:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.29	JB	0.0341	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.474	JB	0.0190	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0508	JB	0.0211	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0397	JQ	0.0280	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.0598	JQ	0.0255	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.119	JB	0.0270	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0674	JB	0.0227	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.118	JBQ	0.0273	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0505	JBQ	0.0178	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0474	JQ	0.0270	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.0823	JBQ	0.0153	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0428	JBQ	0.0171	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0545	JB	0.0312	MDL	1.03	PQL	ng/Kg	U	B
OCDF	0.884	JB	0.0379	MDL	10.3	PQL	ng/Kg	U	B

Sample ID: SL-013-SA8S-SS-0.0-0.5

Collected: 9/29/2011 2:55:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.17	JB	0.0342	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.756	JB	0.0242	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.211	JBQ	0.0263	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.224	J	0.0317	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDF	0.438	J	0.0445	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.253	JB	0.0310	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.372	JBQ	0.0382	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.289	JB	0.0323	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.222	JBQ	0.0314	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.188	J	0.0333	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.268	JBQ	0.0288	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HxCDF	0.311	JB	0.0265	MDL	5.14	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.601	JB	0.0291	MDL	5.14	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.183	JB	0.0618	MDL	1.03	PQL	ng/Kg	U	B
OCDF	1.27	JB	0.0324	MDL	10.3	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-014-SA8S-SS-0.0-0.5

Collected: 9/29/2011 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	0.690	JB	0.0225	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.0761	JBQ	0.0259	MDL	5.20	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.194	J	0.0411	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.220	J	0.0344	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.247	JB	0.0443	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.172	JB	0.0266	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	0.210	JBQ	0.0377	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.164	J	0.0295	MDL	5.20	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.220	JB	0.0239	MDL	5.20	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.184	JB	0.0193	MDL	5.20	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.409	JB	0.0245	MDL	5.20	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0992	JB	0.0421	MDL	1.04	PQL	ng/Kg	U	B
OCDF	1.33	JB	0.0312	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-015-SA8S-SS-0.0-0.5

Collected: 9/29/2011 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-HPCDD	5.08	JB	0.0435	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.862	JB	0.0254	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.108	JB	0.0244	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0940	JBQ	0.0360	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.189	JBQ	0.0463	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.169	JBQ	0.0345	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.129	JBQ	0.0412	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0999	JB	0.0333	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0687	JQ	0.0240	MDL	5.14	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0439	JB	0.0285	MDL	5.14	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0687	JB	0.0184	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.178	JB	0.0190	MDL	5.14	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.220	JBQ	0.0185	MDL	5.14	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0580	JQ	0.0372	MDL	1.03	PQL	ng/Kg	J	Z
OCDF	0.875	JB	0.0367	MDL	10.3	PQL	ng/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: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-024-SA8S-SS-0.0-0.5

Collected: 9/29/2011 2:15:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	3.94	JB	0.0303	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.772	JB	0.0181	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0874	JBQ	0.0267	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.137	JBQ	0.0388	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.179	JBQ	0.0242	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.225	JB	0.0417	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.138	JB	0.0222	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.183	JBQ	0.0314	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0642	JQ	0.0265	MDL	5.00	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0493	JBQ	0.0288	MDL	5.00	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.190	JB	0.0273	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.190	JBQ	0.0224	MDL	5.00	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0436	JBQ	0.0256	MDL	5.00	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0482	JQ	0.0321	MDL	1.00	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.282	J	0.0531	MDL	1.00	PQL	ng/Kg	J	Z
OCDF	1.26	JB	0.0253	MDL	10.0	PQL	ng/Kg	U	B

Sample ID: SL-126-SA7-SB-4.0-5.0

Collected: 9/29/2011 11:33:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.211	JBQ	0.0217	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.0901	JBQ	0.0170	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0193	JB	0.0156	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.124	JB	0.0231	MDL	5.35	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.234	JB	0.0209	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.210	JBQ	0.0136	MDL	5.35	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0429	JB	0.0155	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0159	JB	0.0120	MDL	5.35	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0412	JB	0.0145	MDL	5.35	PQL	ng/Kg	U	B
OCDD	0.577	JB	0.0193	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.124	JBQ	0.0278	MDL	10.7	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-127-SA7-SB-4.0-5.0

Collected: 9/29/2011 10:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.284	JB	0.0175	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.163	JB	0.0112	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0235	JBQ	0.0114	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0219	J	0.0146	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDD	0.0346	JB	0.0158	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0482	JBQ	0.0180	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0636	JBQ	0.0146	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0500	JBQ	0.0119	MDL	5.11	PQL	ng/Kg	U	B
1,2,3,7,8-PECDD	0.0360	J	0.0167	MDL	5.11	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.0254	JBQ	0.00973	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0396	JB	0.0104	MDL	5.11	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0610	JBQ	0.00952	MDL	5.11	PQL	ng/Kg	U	B
OCDD	0.862	JB	0.0149	MDL	10.2	PQL	ng/Kg	U	B
OCDF	0.230	JB	0.0225	MDL	10.2	PQL	ng/Kg	U	B

Sample ID: SL-177-SA7-SB-3.0-4.0

Collected: 9/29/2011 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-HPCDD	0.339	JB	0.0214	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.135	JBQ	0.0113	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0411	JBQ	0.0186	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.0413	JBQ	0.0161	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0551	JBQ	0.0204	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0191	JBQ	0.0139	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0930	JBQ	0.0202	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0556	JQ	0.0176	MDL	5.28	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0346	JBQ	0.0234	MDL	5.28	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.0291	JBQ	0.0138	MDL	5.28	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0511	JBQ	0.0147	MDL	5.28	PQL	ng/Kg	U	B
2,3,7,8-TCDD	0.0319	JQ	0.0314	MDL	1.06	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.0344	JQ	0.0252	MDL	1.06	PQL	ng/Kg	J	Z
OCDD	1.15	JB	0.0208	MDL	10.6	PQL	ng/Kg	U	B
OCDF	0.179	JB	0.0316	MDL	10.6	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-229-SA6-SB-2.0-3.0

Collected: 10/6/2011 9:00:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	3.51	JB	0.0617	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	2.52	JB	0.0622	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.65	JB	0.0372	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.38	JB	0.0337	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	3.92	JB	0.0645	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.432	J	0.0407	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	1.03	JB	0.0556	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.714	JB	0.0280	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	2.20	JB	0.0354	MDL	5.18	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.834	JB	0.0280	MDL	5.18	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.224	J	0.0333	MDL	1.04	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.319	J	0.0443	MDL	1.04	PQL	ng/Kg	J	Z

Sample ID: SL-229-SA6-SS-0.0-0.5

Collected: 10/6/2011 8:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	2.79	JB	0.0599	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	1.87	J	0.0542	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.32	J	0.0740	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.06	JB	0.0629	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDD	2.84	JB	0.0511	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.254	JBQ	0.0378	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	2.23	J	0.0461	MDL	5.23	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	0.255	JBQ	0.0214	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.79	JB	0.0359	MDL	5.23	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.555	JB	0.0214	MDL	5.23	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.151	JBQ	0.0307	MDL	1.05	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.184	JBQ	0.0368	MDL	1.05	PQL	ng/Kg	U	B

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.22	JB	0.0287	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.398	JBQ	0.0497	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.206	JBQ	0.0591	MDL	5.18	PQL	ng/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: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

Sample ID: SL-230-SA6-SB-4.0-5.0

Collected: 10/6/2011 10:45:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HXCDF	0.336	JB	0.0404	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,6,7,8-HXCDD	0.544	JBQ	0.0581	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.234	JBQ	0.0346	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDD	0.226	JBQ	0.0605	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.0487	JQ	0.0456	MDL	5.18	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0606	JBQ	0.0544	MDL	5.18	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.110	JBQ	0.0274	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,6,7,8-HXCDF	0.322	JB	0.0365	MDL	5.18	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.0939	JBQ	0.0274	MDL	5.18	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0620	JQ	0.0441	MDL	1.04	PQL	ng/Kg	J	Z
OCDF	7.59	JB	0.0550	MDL	10.4	PQL	ng/Kg	J	Z

Sample ID: SL-230-SA6-SS-0.0-0.5

Collected: 10/6/2011 10:25:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8,9-HPCDF	1.20	JB	0.0490	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HxCDD	0.816	JB	0.0620	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	1.95	JB	0.0434	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDD	2.49	JB	0.0629	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	1.07	JB	0.0399	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDD	1.51	JB	0.0630	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.316	J	0.0474	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.427	JB	0.0702	MDL	5.34	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDF	1.45	JB	0.0473	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	1.09	JB	0.0433	MDL	5.34	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	1.35	JB	0.0449	MDL	5.34	PQL	ng/Kg	J	Z
2,3,7,8-TCDD	0.0733	J	0.0493	MDL	1.07	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.939	J	0.0847	MDL	1.07	PQL	ng/Kg	J	Z

Sample ID: SL-232-SA6-SB-2.5-3.5

Collected: 10/6/2011 3:30:00

Analysis Type: RES

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	0.308	JBQ	0.0206	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,6,7,8-HPCDF	0.175	JBQ	0.0145	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0271	JBQ	0.0270	MDL	5.37	PQL	ng/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: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-232-SA6-SB-2.5-3.5

**Collected:** 10/6/2011 3:30:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,7,8-HxCDD	0.0832	JBQ	0.0237	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.106	JBQ	0.0177	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.0730	JB	0.0225	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDF	0.0607	JB	0.0146	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.0963	JB	0.0216	MDL	5.37	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDF	0.0889	JQ	0.0201	MDL	5.37	PQL	ng/Kg	J	Z
1,2,3,7,8-PCDF	0.121	JBQ	0.0144	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.0858	JB	0.0156	MDL	5.37	PQL	ng/Kg	U	B
2,3,4,7,8-PCDF	0.0960	JB	0.0151	MDL	5.37	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0684	JQ	0.0263	MDL	1.07	PQL	ng/Kg	J	Z
OCDD	1.23	JB	0.0212	MDL	10.7	PQL	ng/Kg	U	B
OCDF	0.213	JB	0.0310	MDL	10.7	PQL	ng/Kg	U	B

**Sample ID:** SL-232-SA6-SS-0.0-0.5

**Collected:** 10/6/2011 3:00:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	4.46	JB	0.0399	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	1.18	JB	0.0246	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.131	JBQ	0.0420	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.129	JBQ	0.0366	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDF	0.158	JBQ	0.0292	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.289	JB	0.0324	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HxCDF	0.103	JBQ	0.0255	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.291	JB	0.0307	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HxCDF	0.0996	JQ	0.0313	MDL	5.61	PQL	ng/Kg	J	Z
1,2,3,7,8-PCDD	0.104	JBQ	0.0340	MDL	5.61	PQL	ng/Kg	U	B
1,2,3,7,8-PCDF	0.0936	JB	0.0212	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,6,7,8-HxCDF	0.175	JB	0.0251	MDL	5.61	PQL	ng/Kg	U	B
2,3,4,7,8-PCDF	0.209	JB	0.0214	MDL	5.61	PQL	ng/Kg	U	B
2,3,7,8-TCDF	0.0661	J	0.0364	MDL	1.12	PQL	ng/Kg	J	Z
OCDF	3.55	JB	0.0404	MDL	11.2	PQL	ng/Kg	J	Z

\* denotes a non-reportable result

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

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# Data Qualifier Summary

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

**Method Category:** SVOA

**Method:** 1613B

**Matrix:** SO

**Sample ID:** SL-234-SA6-SS-0.0-0.5

**Collected:** 10/6/2011 12:15:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDF	3.56	JB	0.0220	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8,9-HPCDF	0.338	JB	0.0372	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.200	JB	0.0436	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,4,7,8-HXCDF	0.386	JBQ	0.0378	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.648	JB	0.0422	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.369	JB	0.0319	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.588	JB	0.0420	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8,9-HXCDF	0.183	JQ	0.0401	MDL	5.51	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.202	JB	0.0429	MDL	5.51	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.546	JB	0.0320	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.551	JB	0.0320	MDL	5.51	PQL	ng/Kg	J	Z
2,3,4,7,8-PECDF	0.783	JBQ	0.0315	MDL	5.51	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.294	J	0.0639	MDL	1.10	PQL	ng/Kg	J	Z

**Sample ID:** SL-254-SA6-SB-2.5-3.5

**Collected:** 10/6/2011 12:10:00

**Analysis Type:** RES

**Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2,3,4,6,7,8-HPCDD	2.33	JB	0.0314	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,4,6,7,8-HPCDF	0.913	JB	0.0185	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8,9-HPCDF	0.0826	JB	0.0311	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HxCDD	0.0357	JBQ	0.0309	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,4,7,8-HXCDF	0.281	JBQ	0.0277	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,6,7,8-HxCDD	0.247	JB	0.0313	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,6,7,8-HXCDF	0.172	JBQ	0.0229	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HxCDD	0.198	JBQ	0.0307	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8,9-HXCDF	0.0849	JQ	0.0302	MDL	5.09	PQL	ng/Kg	J	Z
1,2,3,7,8-PECDD	0.0424	JB	0.0276	MDL	5.09	PQL	ng/Kg	U	B
1,2,3,7,8-PECDF	0.242	JB	0.0225	MDL	5.09	PQL	ng/Kg	J	Z
2,3,4,6,7,8-HXCDF	0.133	JB	0.0239	MDL	5.09	PQL	ng/Kg	U	B
2,3,4,7,8-PECDF	0.472	JB	0.0226	MDL	5.09	PQL	ng/Kg	J	Z
2,3,7,8-TCDF	0.372	JQ	0.0526	MDL	1.02	PQL	ng/Kg	J	Z
OCDF	1.19	JB	0.0340	MDL	10.2	PQL	ng/Kg	U	B

\* denotes a non-reportable result

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

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## ***Data Qualifier Summary***

Lab Reporting Batch ID: DX147

EDD Filename: DX147\_v1

Laboratory: LL

eQAPP Name: CDM\_SSFL\_110509

02  
#3521  
#12

02  
#3521  
#12

\* 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: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

### Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
B	Method Blank Contamination
FD	Field Duplicate Precision
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

DX147

# Method Blank Outlier Report

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
BLK2860B370829	10/15/2011 8:29:00 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 1,2,3,6,7,8-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 2,3,7,8-TCDD 2,3,7,8-TCDF OCDD OCDF	0.202 ng/Kg 0.0913 ng/Kg 0.0260 ng/Kg 0.0344 ng/Kg 0.0263 ng/Kg 0.0271 ng/Kg 0.0293 ng/Kg 0.0281 ng/Kg 0.0606 ng/Kg 0.0553 ng/Kg 0.0626 ng/Kg 0.0391 ng/Kg 0.380 ng/Kg 0.189 ng/Kg	DUP01-SA8S-QC-092911 SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-229-SA6-SS-0.0-0.5
BLK2920B371824	10/20/2011 6:24:00 PM	1,2,3,4,6,7,8-HPCDD 1,2,3,4,6,7,8-HPCDF 1,2,3,4,7,8,9-HPCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 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	0.305 ng/Kg 0.370 ng/Kg 0.0805 ng/Kg 0.0310 ng/Kg 0.114 ng/Kg 0.0294 ng/Kg 0.0822 ng/Kg 0.0415 ng/Kg 0.0488 ng/Kg 0.0392 ng/Kg 0.0874 ng/Kg 0.0893 ng/Kg 0.653 ng/Kg 0.256 ng/Kg	SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-177-SA7-SB-3.0-4.0 SL-229-SA6-SB-2.0-3.0 SL-230-SA6-SB-4.0-5.0 SL-230-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-232-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-254-SA6-SB-2.5-3.5

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

Sample ID	Analyte	Reported Result	Modified Final Result
DUP01-SA8S-QC-092911(RES)	1,2,3,4,7,8,9-HPCDF	0.0624 ng/Kg	5.15U ng/Kg
DUP01-SA8S-QC-092911(RES)	1,2,3,7,8,9-HxCDF	0.0609 ng/Kg	5.15U ng/Kg
DUP01-SA8S-QC-092911(RES)	1,2,3,7,8-PECDF	0.0763 ng/Kg	5.15U ng/Kg
DUP01-SA8S-QC-092911(RES)	2,3,4,6,7,8-HxCDF	0.149 ng/Kg	5.15U ng/Kg
DUP01-SA8S-QC-092911(RES)	2,3,4,7,8-PECDF	0.233 ng/Kg	5.15U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.118 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDD	0.152 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDD	0.125 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HxCDF	0.0547 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0941 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.203 ng/Kg	5.28U ng/Kg
SL-001-SA8S-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.179 ng/Kg	1.06U ng/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0457 ng/Kg	5.09U ng/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDD	0.165 ng/Kg	5.09U ng/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HxCDF	0.113 ng/Kg	5.09U ng/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HxCDF	0.150 ng/Kg	5.09U ng/Kg
SL-003-SA8S-SS-0.0-0.5(RES)	OCDF	0.882 ng/Kg	10.2U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDD	0.781 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.151 ng/Kg	5.09U ng/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: DX147

Laboratory: LL

EDD Filename: DX147\_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-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0559 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.0811 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0340 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.0560 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0374 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0389 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0512 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0720 ng/Kg	5.09U ng/Kg
SL-005-SA8S-SS-0.0-0.5(RES)	OCDF	0.353 ng/Kg	10.2U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0508 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDD	0.119 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.0674 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.118 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDF	0.0505 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.0823 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0428 ng/Kg	5.14U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0545 ng/Kg	1.03U ng/Kg
SL-007-SA8S-SS-0.0-0.5(RES)	OCDF	0.884 ng/Kg	10.3U ng/Kg
SL-013-SA8S-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.183 ng/Kg	1.03U ng/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0761 ng/Kg	5.20U ng/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.184 ng/Kg	5.20U ng/Kg
SL-014-SA8S-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.0992 ng/Kg	1.04U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.862 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.108 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.0940 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.189 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.129 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.0999 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0439 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0687 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.178 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.220 ng/Kg	5.14U ng/Kg
SL-015-SA8S-SS-0.0-0.5(RES)	OCDF	0.875 ng/Kg	10.3U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	0.772 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0874 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.137 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.179 ng/Kg	5.00U ng/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: DX147

Laboratory: LL

EDD Filename: DX147\_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-024-SA8S-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.138 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8,9-HXCDD	0.183 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.0493 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.190 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.190 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.0436 ng/Kg	5.00U ng/Kg
SL-024-SA8S-SS-0.0-0.5(RES)	OCDF	1.26 ng/Kg	10.0U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.211 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.0901 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0193 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.124 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0429 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0159 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0412 ng/Kg	5.35U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	OCDD	0.577 ng/Kg	10.7U ng/Kg
SL-126-SA7-SB-4.0-5.0(RES)	OCDF	0.124 ng/Kg	10.7U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDD	0.284 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,4,6,7,8-HPCDF	0.163 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0235 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDD	0.0346 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.0482 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDD	0.0636 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,7,8,9-HXCDF	0.0500 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.0254 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.0396 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0610 ng/Kg	5.11U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	OCDD	0.862 ng/Kg	10.2U ng/Kg
SL-127-SA7-SB-4.0-5.0(RES)	OCDF	0.230 ng/Kg	10.2U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDD	0.339 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,4,6,7,8-HPCDF	0.135 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8,9-HPCDF	0.0411 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,4,7,8-HXCDF	0.0413 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDD	0.0551 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,6,7,8-HXCDF	0.0191 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,7,8,9-HXCDD	0.0930 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDD	0.0346 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	1,2,3,7,8-PECDF	0.0291 ng/Kg	5.28U ng/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: DX147

Laboratory: LL

EDD Filename: DX147\_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-177-SA7-SB-3.0-4.0(RES)	2,3,4,6,7,8-HXCDF	0.0511 ng/Kg	5.28U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	OCDD	1.15 ng/Kg	10.6U ng/Kg
SL-177-SA7-SB-3.0-4.0(RES)	OCDF	0.179 ng/Kg	10.6U ng/Kg
SL-229-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDD	0.151 ng/Kg	1.05U ng/Kg
SL-229-SA6-SS-0.0-0.5(RES)	2,3,7,8-TCDF	0.184 ng/Kg	1.05U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8,9-HPCDF	0.398 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	1,2,3,4,7,8-HXCDF	0.336 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	1,2,3,6,7,8-HXCDF	0.234 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDD	0.0606 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	1,2,3,7,8-PECDF	0.110 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	2,3,4,6,7,8-HXCDF	0.322 ng/Kg	5.18U ng/Kg
SL-230-SA6-SB-4.0-5.0(RES)	2,3,4,7,8-PECDF	0.0939 ng/Kg	5.18U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDD	0.308 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.175 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0271 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0832 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.106 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HxCDD	0.0730 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.0607 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HxCDD	0.0963 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDF	0.121 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.0858 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	2,3,4,7,8-PECDF	0.0960 ng/Kg	5.37U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	OCDD	1.23 ng/Kg	10.7U ng/Kg
SL-232-SA6-SB-2.5-3.5(RES)	OCDF	0.213 ng/Kg	10.7U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,4,6,7,8-HPCDF	1.18 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.131 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HxCDD	0.129 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.158 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.103 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.104 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDF	0.0936 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	2,3,4,6,7,8-HXCDF	0.175 ng/Kg	5.61U ng/Kg
SL-232-SA6-SS-0.0-0.5(RES)	2,3,4,7,8-PECDF	0.209 ng/Kg	5.61U ng/Kg
SL-234-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8,9-HPCDF	0.338 ng/Kg	5.51U ng/Kg
SL-234-SA6-SS-0.0-0.5(RES)	1,2,3,4,7,8-HXCDF	0.386 ng/Kg	5.51U ng/Kg
SL-234-SA6-SS-0.0-0.5(RES)	1,2,3,6,7,8-HXCDF	0.369 ng/Kg	5.51U ng/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: DX147

Laboratory: LL

EDD Filename: DX147\_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-234-SA6-SS-0.0-0.5(RES)	1,2,3,7,8-PECDD	0.202 ng/Kg	5.51U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,4,6,7,8-HPCDF	0.913 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8,9-HPCDF	0.0826 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HxCDD	0.0357 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,4,7,8-HXCDF	0.281 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,6,7,8-HXCDF	0.172 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,7,8,9-HxCDD	0.198 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	1,2,3,7,8-PECDD	0.0424 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	2,3,4,6,7,8-HXCDF	0.133 ng/Kg	5.09U ng/Kg
SL-254-SA6-SB-2.5-3.5(RES)	OCDF	1.19 ng/Kg	10.2U ng/Kg



# Field Duplicate RPD Report

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 160.3M

Matrix: SO

Analyte	Concentration (%)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
MOISTURE	3.3	3.1	6		No Qualifiers Applied

Method: 1613B

Matrix: SO

Analyte	Concentration (ng/Kg)		Sample RPD	eQAPP RPD	Flag
	SL-003-SA8S-SS-0.0-0.5	DUP01-SA8S-QC-092911			
1,2,3,4,6,7,8-HPCDD	2.71	3.04	11	50.00	No Qualifiers Applied
1,2,3,4,6,7,8-HPCDF	0.574	0.615	7	50.00	
1,2,3,4,7,8,9-HPCDF	0.0457	0.0624	31	50.00	
1,2,3,4,7,8-HxCDD	0.0692	0.0704	2	50.00	
1,2,3,4,7,8-HxCDF	0.220	0.361	49	50.00	
1,2,3,6,7,8-HxCDD	0.165	0.193	16	50.00	
1,2,3,6,7,8-HxCDF	0.113	0.148	27	50.00	
1,2,3,7,8,9-HxCDD	0.163	0.138	17	50.00	
1,2,3,7,8-PECDD	0.0765	0.0846	10	50.00	
2,3,4,6,7,8-HxCDF	0.150	0.149	1	50.00	
2,3,4,7,8-PECDF	0.317	0.233	31	50.00	
2,3,7,8-TCDF	0.196	0.265	30	50.00	
OCDD	18.7	27.5	38	50.00	
OCDF	0.882	1.00	13	50.00	
1,2,3,7,8,9-HxCDF	5.09 U	0.0609	200	50.00	
1,2,3,7,8-PECDF	5.09 U	0.0763	200	50.00	

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: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
DUP01-SA8S-QC-092911	1,2,3,4,6,7,8-HPCDD	JB	3.04	5.15	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.615	5.15	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0624	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0704	5.15	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.361	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.193	5.15	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.148	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.138	5.15	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JB	0.0609	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0846	5.15	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0763	5.15	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.149	5.15	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.233	5.15	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.265	1.03	PQL	ng/Kg	
	OCDF	JB	1.00	10.3	PQL	ng/Kg	
SL-001-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.77	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.592	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.118	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0733	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JQ	0.288	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.152	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.133	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.125	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0547	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0599	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0941	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.203	5.28	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.381	5.28	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.179	1.06	PQL	ng/Kg	
	OCDF	JB	1.15	10.6	PQL	ng/Kg	
SL-003-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.71	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.574	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0457	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0692	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.220	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.165	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.113	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.163	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0765	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.150	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.317	5.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.196	1.02	PQL	ng/Kg	
	OCDF	JB	0.882	10.2	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-005-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	0.781	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.151	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0559	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0315	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JQ	0.0398	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.0811	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0340	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0560	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0374	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0587	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0389	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0512	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0720	5.09	PQL	ng/Kg	
	OCDD	JB	5.28	10.2	PQL	ng/Kg	
	OCDF	JB	0.353	10.2	PQL	ng/Kg	
SL-007-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.29	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.474	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0508	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JQ	0.0397	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JQ	0.0598	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.119	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0674	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.118	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.0505	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JQ	0.0474	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JBQ	0.0823	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0428	5.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0545	1.03	PQL	ng/Kg	
	OCDF	JB	0.884	10.3	PQL	ng/Kg	
SL-013-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	2.17	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.756	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.211	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.224	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	J	0.438	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.253	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.372	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.289	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.222	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.188	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.268	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.311	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.601	5.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.183	1.03	PQL	ng/Kg	
	OCDF	JB	1.27	10.3	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-014-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	0.690	5.20	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0761	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.194	5.20	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	J	0.220	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.247	5.20	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.172	5.20	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.210	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.164	5.20	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.220	5.20	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.184	5.20	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.409	5.20	PQL	ng/Kg	
	2,3,7,8-TCDF	JB	0.0992	1.04	PQL	ng/Kg	
	OCDF	JB	1.33	10.4	PQL	ng/Kg	
SL-015-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	5.08	5.14	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.862	5.14	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.108	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0940	5.14	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.189	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.169	5.14	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.129	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0999	5.14	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0687	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0439	5.14	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0687	5.14	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.178	5.14	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.220	5.14	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0580	1.03	PQL	ng/Kg	
	OCDF	JB	0.875	10.3	PQL	ng/Kg	
SL-024-SA8S-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	3.94	5.00	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.772	5.00	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0874	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.137	5.00	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.179	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.225	5.00	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	0.138	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.183	5.00	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0642	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0493	5.00	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.190	5.00	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.190	5.00	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0436	5.00	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0482	1.00	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.282	1.00	PQL	ng/Kg	
	OCDF	JB	1.26	10.0	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-126-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JBQ	0.211	5.35	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.0901	5.35	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0193	5.35	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.124	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	0.234	5.35	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.210	5.35	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0429	5.35	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0159	5.35	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0412	5.35	PQL	ng/Kg	
	OCDD	JB	0.577	10.7	PQL	ng/Kg	
	OCDF	JBQ	0.124	10.7	PQL	ng/Kg	
SL-127-SA7-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDD	JB	0.284	5.11	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.163	5.11	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0235	5.11	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	J	0.0219	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JB	0.0346	5.11	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0482	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0636	5.11	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JBQ	0.0500	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	0.0360	5.11	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0254	5.11	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	0.0396	5.11	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0610	5.11	PQL	ng/Kg	
	OCDD	JB	0.862	10.2	PQL	ng/Kg	
	OCDF	JB	0.230	10.2	PQL	ng/Kg	
SL-177-SA7-SB-3.0-4.0	1,2,3,4,6,7,8-HPCDD	JB	0.339	5.28	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JBQ	0.135	5.28	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0411	5.28	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JBQ	0.0413	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDD	JBQ	0.0551	5.28	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JBQ	0.0191	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JBQ	0.0930	5.28	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	JQ	0.0556	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0346	5.28	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.0291	5.28	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JBQ	0.0511	5.28	PQL	ng/Kg	
	2,3,7,8-TCDD	JQ	0.0319	1.06	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0344	1.06	PQL	ng/Kg	
	OCDD	JB	1.15	10.6	PQL	ng/Kg	
	OCDF	JB	0.179	10.6	PQL	ng/Kg	
SL-229-SA6-SB-2.0-3.0	1,2,3,4,7,8,9-HPCDF	JB	3.51	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	2.52	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HXCDF	JB	1.65	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HXCDF	JB	1.38	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDD	JB	3.92	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HXCDF	J	0.432	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	1.03	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.714	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HXCDF	JB	2.20	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.834	5.18	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.224	1.04	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.319	1.04	PQL	ng/Kg	

# Reporting Limit Outliers

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-229-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	2.79	5.23	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	J	1.87	5.23	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	J	1.32	5.23	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.06	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	2.84	5.23	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JBQ	0.254	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDD	J	2.23	5.23	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.255	5.23	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.79	5.23	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.555	5.23	PQL	ng/Kg	
	2,3,7,8-TCDD	JBQ	0.151	1.05	PQL	ng/Kg	
	2,3,7,8-TCDF	JBQ	0.184	1.05	PQL	ng/Kg	
SL-230-SA6-SB-4.0-5.0	1,2,3,4,6,7,8-HPCDF	JB	3.22	5.18	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JBQ	0.398	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.206	5.18	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	0.336	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JBQ	0.544	5.18	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.234	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.226	5.18	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JQ	0.0487	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.0606	5.18	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.110	5.18	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.322	5.18	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.0939	5.18	PQL	ng/Kg	
SL-230-SA6-SS-0.0-0.5	1,2,3,4,7,8,9-HPCDF	JB	1.20	5.34	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8-HxCDD	JB	0.816	5.34	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JB	1.95	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	2.49	5.34	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	1.07	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	1.51	5.34	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	J	0.316	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.427	5.34	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	1.45	5.34	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	1.09	5.34	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	1.35	5.34	PQL	ng/Kg	
	2,3,7,8-TCDD	J	0.0733	1.07	PQL	ng/Kg	
SL-232-SA6-SB-2.5-3.5	2,3,7,8-TCDF	J	0.939	1.07	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDD	JBQ	0.308	5.37	PQL	ng/Kg	
	1,2,3,4,6,7,8-HPCDF	JBQ	0.175	5.37	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.0271	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0832	5.37	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.106	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.0730	5.37	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.0607	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.0963	5.37	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JQ	0.0889	5.37	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JBQ	0.121	5.37	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.0858	5.37	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.0960	5.37	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.0684	1.07	PQL	ng/Kg	
	OCDD	JB	1.23	10.7	PQL	ng/Kg	
	OCDF	JB	0.213	10.7	PQL	ng/Kg	

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# Reporting Limit Outliers

Lab Reporting Batch ID: DX147

Laboratory: LL

EDD Filename: DX147\_v1

eQAPP Name: CDM\_SSFL\_110509

Method: 1613B

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-232-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDD	JB	4.46	5.61	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	1.18	5.61	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JBQ	0.131	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.129	5.61	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.158	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.289	5.61	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.103	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.291	5.61	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JQ	0.0996	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JBQ	0.104	5.61	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.0936	5.61	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.175	5.61	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.209	5.61	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.0661	1.12	PQL	ng/Kg	
	OCDF	JB	3.55	11.2	PQL	ng/Kg	
SL-234-SA6-SS-0.0-0.5	1,2,3,4,6,7,8-HPCDF	JB	3.56	5.51	PQL	ng/Kg	J (all detects)
	1,2,3,4,7,8,9-HPCDF	JB	0.338	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JB	0.200	5.51	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.386	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.648	5.51	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JB	0.369	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JB	0.588	5.51	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JQ	0.183	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.202	5.51	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.546	5.51	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.551	5.51	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JBQ	0.783	5.51	PQL	ng/Kg	
	2,3,7,8-TCDF	J	0.294	1.10	PQL	ng/Kg	
SL-254-SA6-SB-2.5-3.5	1,2,3,4,6,7,8-HPCDD	JB	2.33	5.09	PQL	ng/Kg	J (all detects)
	1,2,3,4,6,7,8-HPCDF	JB	0.913	5.09	PQL	ng/Kg	
	1,2,3,4,7,8,9-HPCDF	JB	0.0826	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDD	JBQ	0.0357	5.09	PQL	ng/Kg	
	1,2,3,4,7,8-HxCDF	JBQ	0.281	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDD	JB	0.247	5.09	PQL	ng/Kg	
	1,2,3,6,7,8-HxCDF	JBQ	0.172	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDD	JBQ	0.198	5.09	PQL	ng/Kg	
	1,2,3,7,8,9-HxCDF	JQ	0.0849	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDD	JB	0.0424	5.09	PQL	ng/Kg	
	1,2,3,7,8-PECDF	JB	0.242	5.09	PQL	ng/Kg	
	2,3,4,6,7,8-HxCDF	JB	0.133	5.09	PQL	ng/Kg	
	2,3,4,7,8-PECDF	JB	0.472	5.09	PQL	ng/Kg	
	2,3,7,8-TCDF	JQ	0.372	1.02	PQL	ng/Kg	
	OCDF	JB	1.19	10.2	PQL	ng/Kg	

## **Enclosure II**

### **Level IV Validation Reports**



## Laboratory Data Consultants, Inc. Data Validation Report

**Project/Site Name:** Santa Susana Field Laboratory  
**Collection Date:** September 29, 2011  
**LDC Report Date:** January 31, 2012  
**Matrix:** Soil  
**Parameters:** Dioxins/Dibenzofurans  
**Validation Level:** Level IV  
**Laboratory:** Lancaster Laboratories  
**Sample Delivery Group (SDG):** DX147

### Sample Identification

SL-001-SA8S-SS-0.0-0.5	SL-003-SA8S-SS-0.0-0.5MS
SL-003-SA8S-SS-0.0-0.5	SL-003-SA8S-SS-0.0-0.5MSD
SL-005-SA8S-SS-0.0-0.5	
SL-007-SA8S-SS-0.0-0.5	
SL-013-SA8S-SS-0.0-0.5	
SL-014-SA8S-SS-0.0-0.5	
SL-015-SA8S-SS-0.0-0.5	
SL-024-SA8S-SS-0.0-0.5	
DUP01-SA8S-QC-092911	
SL-126-SA7-SB-4.0-5.0	
SL-127-SA7-SB-4.0-5.0	
SL-177-SA7-SB-3.0-4.0	
SL-229-SA6-SS-0.0-0.5	
SL-230-SA6-SS-0.0-0.5	
SL-234-SA6-SS-0.0-0.5	
SL-232-SA6-SS-0.0-0.5	
SL-232-SA6-SB-2.5-3.5	
SL-229-SA6-SB-2.0-3.0	
SL-230-SA6-SB-4.0-5.0	
SL-254-SA6-SB-2.5-3.5	

## Introduction

This data review covers 22 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
BLK286001	10/13/11	2,3,7,8-TCDF 2,3,7,8-TCDD 1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0391 ng/Kg 0.0626 ng/Kg 0.0281 ng/Kg 0.0553 ng/Kg 0.0263 ng/Kg 0.0606 ng/Kg 0.0344 ng/Kg 0.0271 ng/Kg 0.0293 ng/Kg 0.0913 ng/Kg 0.202 ng/Kg 0.0260 ng/Kg 0.380 ng/Kg 0.189 ng/Kg	SL-001-SA8S-SS-0.0-0.5 SL-003-SA8S-SS-0.0-0.5 SL-005-SA8S-SS-0.0-0.5 SL-007-SA8S-SS-0.0-0.5 SL-013-SA8S-SS-0.0-0.5 SL-014-SA8S-SS-0.0-0.5 DUP01-SA8S-QC-092911 SL-126-SA7-SB-4.0-5.0 SL-127-SA7-SB-4.0-5.0 SL-229-SA6-SS-0.0-0.5
BLK292003	10/19/11	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 1,2,3,7,8-PeCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8-HxCDD 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0392 ng/Kg 0.0693 ng/Kg 0.0488 ng/Kg 0.114 ng/Kg 0.0822 ng/Kg 0.0874 ng/Kg 0.0310 ng/Kg 0.0294 ng/Kg 0.0415 ng/Kg 0.370 ng/Kg 0.305 ng/Kg 0.0805 ng/Kg 0.653 ng/Kg 0.256 ng/Kg	SL-015-SA8S-SS-0.0-0.5 SL-024-SA8S-SS-0.0-0.5 SL-177-SA7-SB-3.0-4.0 SL-230-SA6-SS-0.0-0.5 SL-234-SA6-SS-0.0-0.5 SL-232-SA6-SS-0.0-0.5 SL-232-SA6-SB-2.5-3.5 SL-229-SA6-SB-2.0-3.0 SL-230-SA6-SB-4.0-5.0 SL-254-SA6-SB-2.5-3.5

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-001-SA8S-SS-0.0-0.5	2,3,7,8-TCDF 1,2,3,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.179 ng/Kg 0.0941 ng/Kg 0.203 ng/Kg 0.152 ng/Kg 0.125 ng/Kg 0.0547 ng/Kg 0.118 ng/Kg	0.179U ng/Kg 0.0941U ng/Kg 0.203U ng/Kg 0.152U ng/Kg 0.125U ng/Kg 0.0547U ng/Kg 0.118U ng/Kg
SL-003-SA8S-SS-0.0-0.5	1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.113 ng/Kg 0.150 ng/Kg 0.165 ng/Kg 0.0457 ng/Kg 0.882 ng/Kg	0.113U ng/Kg 0.150U ng/Kg 0.165U ng/Kg 0.0457U ng/Kg 0.882U ng/Kg

Sample	Compound	Reported Concentration	Modified Final Concentration
SL-005-SA8S-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 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDF	0.0389 ng/Kg 0.0720 ng/Kg 0.0340 ng/Kg 0.0512 ng/Kg 0.0811 ng/Kg 0.0560 ng/Kg 0.0374 ng/Kg 0.151 ng/Kg 0.781 ng/Kg 0.0559 ng/Kg 0.353 ng/Kg	0.0389U ng/Kg 0.0720U ng/Kg 0.0340U ng/Kg 0.0512U ng/Kg 0.0811U ng/Kg 0.0560U ng/Kg 0.0374U ng/Kg 0.151U ng/Kg 0.781U ng/Kg 0.0559U ng/Kg 0.353U ng/Kg
SL-007-SA8S-SS-0.0-0.5	2,3,7,8-TCDF 2,3,4,7,8-PeCDF 1,2,3,6,7,8-HxCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF OCDF	0.0545 ng/Kg 0.0428 ng/Kg 0.0674 ng/Kg 0.0823 ng/Kg 0.119 ng/Kg 0.118 ng/Kg 0.0505 ng/Kg 0.0508 ng/Kg 0.884 ng/Kg	0.0545U ng/Kg 0.0428U ng/Kg 0.0674U ng/Kg 0.0823U ng/Kg 0.119U ng/Kg 0.118U ng/Kg 0.0505U ng/Kg 0.0508U ng/Kg 0.884U ng/Kg
SL-013-SA8S-SS-0.0-0.5	2,3,7,8-TCDF	0.183 ng/Kg	0.183U ng/Kg
SL-014-SA8S-SS-0.0-0.5	2,3,7,8-TCDF 2,3,4,6,7,8-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0992 ng/Kg 0.184 ng/Kg 0.0761 ng/Kg	0.0992U ng/Kg 0.184U ng/Kg 0.0761U ng/Kg
DUP01-SA8S-QC-092911	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,7,8,9-HxCDF 1,2,3,4,7,8,9-HpCDF	0.0763 ng/Kg 0.233 ng/Kg 0.149 ng/Kg 0.0609 ng/Kg 0.0624 ng/Kg	0.0763U ng/Kg 0.233U ng/Kg 0.149U ng/Kg 0.0609U ng/Kg 0.0624U ng/Kg
SL-126-SA7-SB-4.0-5.0	1,2,3,7,8-PeCDF 2,3,4,7,8-PeCDF 2,3,4,6,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,6,7,8-HpCDD 1,2,3,4,7,8,9-HpCDF OCDD OCDF	0.0429 ng/Kg 0.0412 ng/Kg 0.0159 ng/Kg 0.124 ng/Kg 0.0901 ng/Kg 0.211 ng/Kg 0.0193 ng/Kg 0.577 ng/Kg 0.124 ng/Kg	0.0429U ng/Kg 0.0412U ng/Kg 0.0159U ng/Kg 0.124U ng/Kg 0.0901U ng/Kg 0.211U ng/Kg 0.0193U ng/Kg 0.577U ng/Kg 0.124U ng/Kg
SL-127-SA7-SB-4.0-5.0	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 1,2,3,6,7,8-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	0.0254 ng/Kg 0.0610 ng/Kg 0.0482 ng/Kg 0.0396 ng/Kg 0.0346 ng/Kg 0.0636 ng/Kg 0.0500 ng/Kg 0.163 ng/Kg 0.284 ng/Kg 0.0235 ng/Kg 0.862 ng/Kg 0.230 ng/Kg	0.0254U ng/Kg 0.0610U ng/Kg 0.0482U ng/Kg 0.0396U ng/Kg 0.0346U ng/Kg 0.0636U ng/Kg 0.0500U ng/Kg 0.163U ng/Kg 0.284U ng/Kg 0.0235U ng/Kg 0.862U ng/Kg 0.230U ng/Kg
SL-229-SA6-SS-0.0-0.5	2,3,7,8-TCDF 2,3,7,8-TCDD	0.184 ng/Kg 0.151 ng/Kg	0.184U ng/Kg 0.151U ng/Kg